APPENDIX A

NOTICE OF PREPARATION AND PUBLIC COMMENTS ON THE NOP

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NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE S. STAMOULES, INC. PISTACHIO PROCESSING FACILITY PROJECT

Date: July 6, 2022

To: Office of Planning and Research, Responsible and Trustee Agencies, Other Public

Agencies and Other Interested Parties

Subject: Notice of Preparation of Draft Environmental Impact Report for the

S. Stamoules, Inc. Pistachio Processing Facility

Lead Agency: Fresno County

Contact: Ejaz Ahmad, Planner

Department of Public Works and Planning

Development Services Division 2220 Tulare Street, 6th floor

Fresno, CA 93721 (559) 600-4204

EAhmad@FresnoCountyCA.gov

Comment Period: July 8, 2022, to August 9, 2022

PURPOSE OF NOTICE

Fresno County (County) is the lead agency responsible for preparation of an Environmental Impact Report (EIR) for the S. Stamoules, Inc. Pistachio Processing Facility Project (proposed project). Pursuant to provisions of the California Environmental Quality Act (CEQA), the County has prepared this Notice of Preparation (NOP) for the proposed project. Once a decision is made to prepare an EIR, the lead agency must prepare a NOP to inform all responsible and trustee agencies that an EIR will be prepared (CEQA Guidelines Section 15082). The purpose of this NOP is to provide agencies, interested parties, and organizations with sufficient information describing the proposed project and the potential environmental effects to enable meaningful input related to the scope and content of information to be included in the EIR.

PUBLIC REVIEW PERIOD

This NOP is being circulated for public review and comment for a period of 30 days beginning July 8, 2022. The County requests that any potential Responsible or Trustee Agencies responding to this NOP reply in a manner consistent with Section 15082(b) of the CEQA Guidelines, which allows for submittal of any comments in response to this notice no later than 30 days after receipt of the NOP. Comments in response to this NOP will be accepted through 5:00 p.m., August 9, 2022. Please send your written comments to Mr. Ahmad and include your name, address, and phone number and/or email address so that we may contact you for clarification, if necessary.

PUBLIC SCOPING MEETING

The County will hold a public scoping meeting to inform interested parties about the proposed project and to provide agencies and the public with an opportunity to provide comments on the scope and content of the EIR. The meeting time and location is as follows:

Date: Monday, July 25, 2022 Time: 4 p.m. to 4:30 p.m.

Link: http://bit.ly/stamoulesscopemeeting Meeting ID: 220 639 430 437; Passcode:

dGW56V, or

Call-in (audio only): 1 559-494-4226; Conference ID: 756 743 547#

PROJECT DESCRIPTION

S. Stamoules Inc. (Project Applicant) proposes to build a pistachio hulling, processing, and packing facility on a 98-acre portion of a 316.2-acre parcel located in western Fresno County, 8 miles southwest of the City of Mendota. Trucks carrying pistachios from the Project Applicant's orchards would deposit their load on a conveyor belt system that would transport the pistachios through different sections of the proposed facility that include a huller building, a gas-powered dryer area, a drive-over dump pit area, and an area with storage silos which are proposed to be 50 feet in height. Additionally, the processed water from the facility will be conveyed via existing subsurface piping to irrigate approximately 3,740 acres of agricultural land owned by the owner and are located approximately two to six miles to the northeast of the project site located on the northwest corner of S. Newcomb Avenue and W. Muscat Avenue approximately 9.7 mile south of the City of Firebaugh.

The proposed project would be implemented in four phases, and each phase would include the construction and addition of buildings, working areas and equipment to increase the capacity of the project site. Attached to this notice are four figures showing the project location, proposed site plan, partial Site Plan and Process Water Land Application Area.

Phase I of the project would include the construction of a 16,893 square-foot huller building, an approximately 5,608 square-foot drive-over dumping pit area, and an approximately 3,900 square-foot pre-cleaning area. Ten 8 by 29 feet dryers and 18 52- by 52-foot galvanized steel silos, each of 2,200,000-pound capacity, would be added to the project site west of the proposed huller building under Phase I of the proposed project.

Phase II of the project would include the construction of a 155,169-square-foot processing building for pistachios.

Phase III of the project would include the installation of processing, sorting, and packing equipment in the pistachio processing building, as well as the construction of twelve additional silos and the installation of ten additional dryer units.

Finally, Phase IV of the project would include the construction of a second 16,893-square-foot huller building, an additional drive-over dumping pit area and pre-cleaning area, and the construction and installation of 30 additional silos and 20 dryer units.

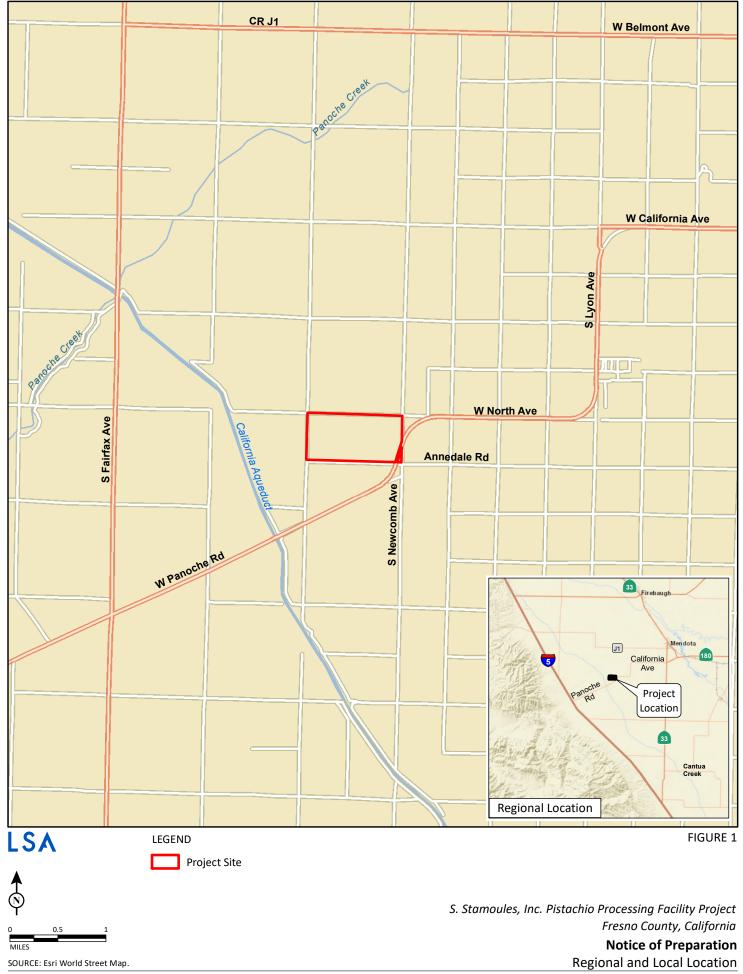
POTENTIAL ENVIRONMENTAL EFFECTS

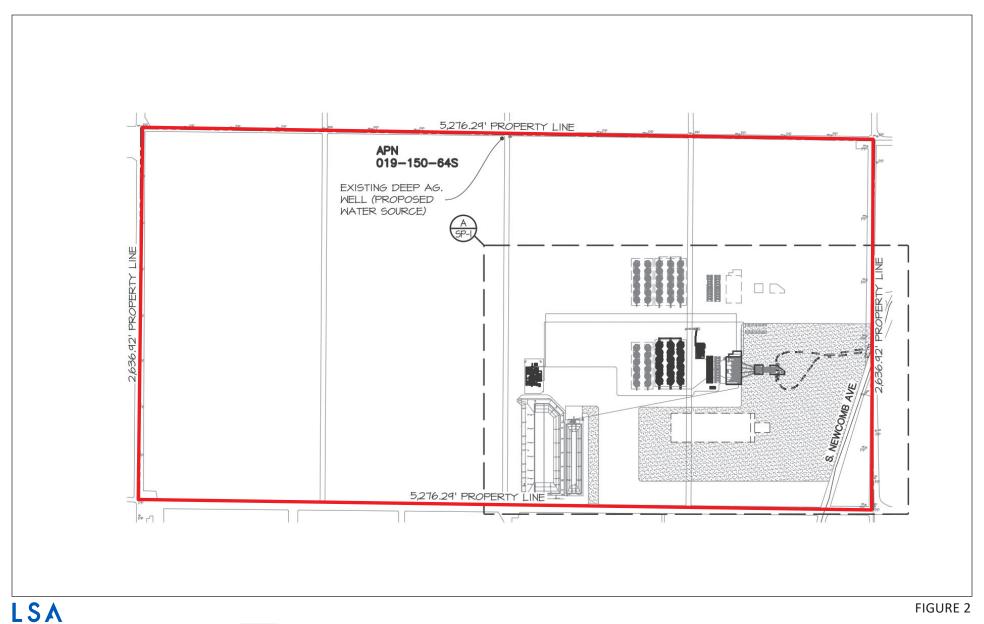
The S. Stamoules, Inc. Pistachio Processing Facility EIR will evaluate the potential environmental impacts of the proposed project, after having first established the environmental setting, or baseline, for the environmental analysis. The significance of potential impacts, cumulative impacts, and appropriate mitigation measures associated with implementation of the project will be thoroughly discussed in the EIR.

The following environmental resource topic areas will be evaluated in the EIR:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions

- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems







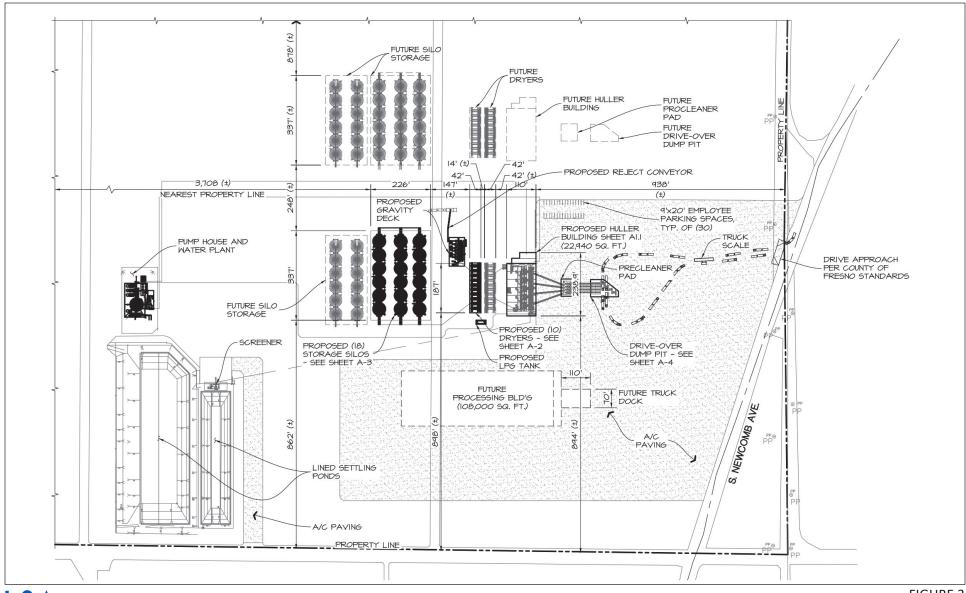
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Project Site Boundary

NOT TO SCALE

S. Stamoules, Inc. Pistachio Processing Facility Project
Fresno County, California
Notice of Preparation
Project Site Plan

SOURCE: Engel & Company, 2020



LSA

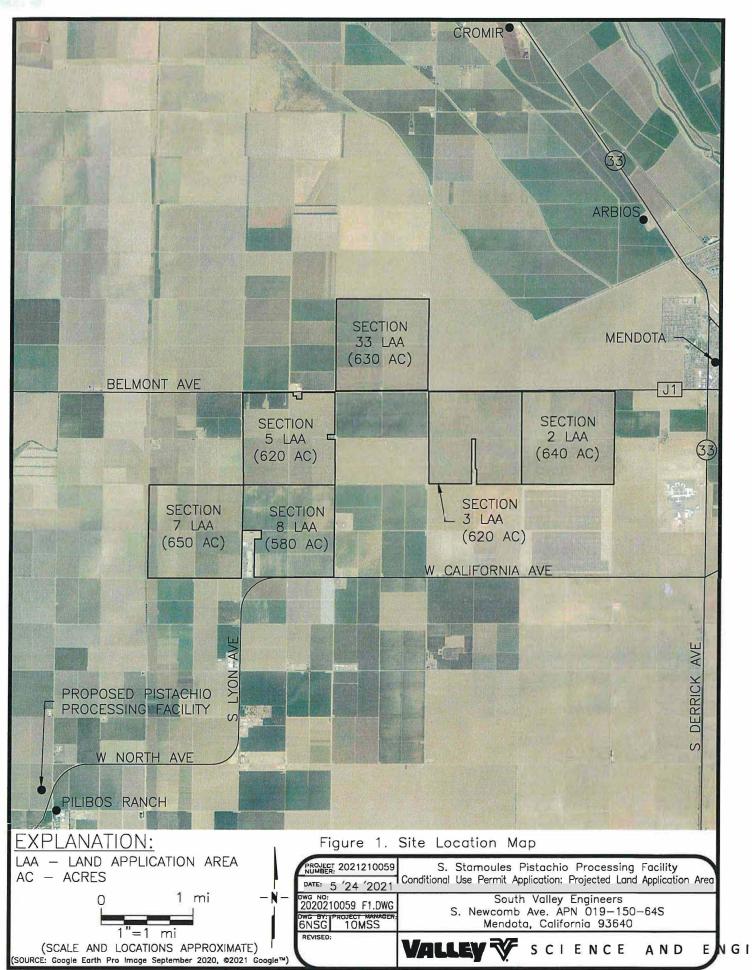
FIGURE 3



NOT TO SCALE

S. Stamoules, Inc. Pistachio Processing Facility Project
Fresno County, California
Notice of Preparation

Partial Site Plan





CHAIRPERSON **Laura Miranda** Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

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Hitchcock
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NAHC HEADQUARTERS 1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

July 8, 2022

Ejaz Ahmad County of Fresno 2220 Tulare Street, Sixth Floor Fresno, CA 93721

Re: 2022070101, S. Stamoules, Inc. Pistachio Processing Facility Project, Fresno County

Dear Ejaz Ahmad:

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 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. <u>Mandatory Topics of Consultation If Requested by a Tribe</u>: 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. <u>Discretionary Topics of Consultation</u>: 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.** <u>Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:</u> 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. <u>Conclusion of Consultation</u>: 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. <u>Tribal Consultation</u>: 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. <u>Confidentiality</u>: 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: Cameron. Vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cultural Resources Analyst

cc: State Clearinghouse

Cameron Vela

From: Sarah Pilibos
To: Ahmad, Ejaz

Cc: Randall , David A.; Duane Urbanek; Catherine Pilibos

Subject: RE: Stamoules Pistachio Processing Plant - EIR response

Date: Thursday, August 11, 2022 10:33:46 AM

Attachments: image001.png

I appreciate that very much. What is the next step with this process? Who should I follow up with to see how our concerns will be handled?

Thank you. Sarah

From: Ahmad, Ejaz < EAhmad@fresnocountyca.gov>

Sent: Thursday, August 11, 2022 10:06 AM

To: Sarah Pilibos <sarah@pilibosproperties.com>

Cc: Randall , David A. <drandall@fresnocountyca.gov>

Subject: Stamoules Pistachio Processing Plant - EIR response

Dear Ms. Sarah,

Thanks for your email. Your concerns has been noted.

Regards!.



Ejaz Ahmad| Planner

Department of Public Works and Planning | Development Services and Capital Projects Division/Current Planning Section

2220 Tulare St. 6th Floor Fresno, CA 93721

Main Office: (559) 600-4497 Direct: (559) 600-4204

Your input matters! Customer Service Survey

From: Sarah Pilibos < <u>sarah@pilibosproperties.com</u>>

Sent: Tuesday, August 9, 2022 2:25 PM

To: Ahmad, Ejaz <<u>EAhmad@fresnocountyca.gov</u>>

Cc: Duane Urbanek < <u>duane@pilibosranch.com</u>>; Catherine Pilibos < <u>cat@pilibosproperties.com</u>>

Subject: Stamoules Pistachio Processing Plant - EIR response

CAUTION!!! - EXTERNAL EMAIL - THINK BEFORE YOU CLICK

Dear Mr. Ahmad:

Per the July 25, 2022 public hearing regarding the above development, please accept this response on behalf of the Pilibos family ranching operation & owners. We wish to express our serious concerns as to how the land use, as proposed will directly impact our land use, and access needed regarding our access to public road, our farming operation transportation, as well as our air and water quality.

One immediate observation we have is that the facility's entrance (as presently designed) chokes access to our ranch entrance on S. Newcombe. That strangles access to our field roads southeast & southwest. A second observation of immediate concern is that this access junction (as presently designed) abuts a

permanent orchard of pomegranates (see Figure 3 highlighted areas attached). We do not wish to lose this field or any portion of it to either eminent domain or easement to accommodate an enlarged county road. We assert that any road enlargements be redirected and reposition from Stamoules land onto public access that is significantly more distant than our land.

These are our initial concerns. We will follow up with a more detailed, professional study as the process continues. Kindly direct us to the appropriate personnel with whom we can continue this discussion.

In closing, we hope there is flexibility in the designed plans as we are responding early to the development. We appreciate the financial impact of such an endeavor is to the county, but we also presume it will not be permitted to interrupt or abuse our land or current operation.

Thank you in advance for your attention to this matter.

Sincerely.
Sarah Pilibos
President
Stephen Investments/Pilibos Bros
Pilibos Sister, Inc. & the Y. Stephen & Lucille Pilibos Trust
2141 Tuolumne Street, Suite "A"
Fresno, CA 93721
Office: (559) 268-0101

Office: (559) 268-0101 Facsimile: (559) 268-7246

Email: Sarah@pilibosproperties.com

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August 11, 2022

Ejaz Ahmad County of Fresno Department of Public Works and Planning 2220 Tulare Street, 6th floor Fresno, CA 93721

Project: Notice of Preparation of a Draft Environmental Impact Report – S.

Stamoules, Inc. Pistachio Processing Facility Project

District CEQA Reference No: 20221001

Dear Mr. Ahmad:

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Notice of Preparation from the County of Fresno (County) for the above mentioned project. Per the Notice of Preparation for the Draft Environmental Impact Report (DEIR), the project consists of the construction and operation of a pistachio hulling, processing and packing facility to be constructed in the following four phases (Project):

- Phase 1: construction of a 16,893 square foot huller building, approximately 5,608 square foot drive-over dumping pit area, approximately 3,900 square foot pre-cleaning area, ten 8x29 foot dryers, and eighteen 52x52 foot galvanized steel silos.
- Phase 2: construction of a 155,169 square foot processing building for pistachios.
- Phase 3: installation of a processing, sorting, and packing equipment in the pistachio processing building. Including twelve additional silos and the installation of ten additional dryer units.
- Phase 4: construction of a second 16,893 square foot huller building, and additional drive-over dumping pit area and pre-cleaning area, and the construction and installation of 30 additional silos and 20 dryer units.

Samir Sheikh **Executive Director/Air Pollution Control Officer** The District offers the following comments regarding the Project:

1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://www.valleyair.org/transportation/GAMAQI.pdf. The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment, including the latest tier equipment.

1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts:

https://www.valleyair.org/transportation/GAMAQI.pdf.

Recommended Mitigation Measure: At a minimum, project related impacts on air quality should be reduced to levels of significance through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at:

http://www.valleyair.org/transportation/Mitigation-Measures.pdf.

1c) Recommended Model for Quantifying Air Emissions

Project-related criteria pollutant emissions from construction and operational sources should be identified and quantified. Emissions analysis should be performed using the California Emission Estimator Model (CalEEMod), which

uses the most recent CARB-approved version of relevant emissions models and emission factors. CalEEMod is available to the public and can be downloaded from the CalEEMod website at: www.caleemod.com.

2) Health Risk Screening/Assessment

The County should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These health risk determinations should quantify and characterize potential Toxic Air Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):

A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

To assist land use agencies and project proponents with Prioritization analyses, the District has created a prioritization calculator based on the aforementioned CAPCOA quidelines, which can be found here:

http://www.valleyair.org/busind/pto/emission_factors/Criteria/Toxics/Utilities/PRIORITIZATION-CALCULATOR.xls

Health Risk Assessment:

Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA. This step will ensure all components are addressed when performing the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the project-related health impacts would exceed the District's significance threshold of 20 in a million for carcinogenic risk, or 1.0 for either the Acute or Chronic Hazard Indices.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

Recommended Measure: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww3.arb.ca.gov/ch/handbook.pdf.

3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and

modeling guidance, is available online at the District's website: www.valleyair.org/ceqa.

4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the DEIR also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs. The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

5) Industrial/Warehouse Emission Reduction Strategies

The District recommends the County consider the feasibility of incorporating emission reduction strategies that can reduce potential harmful health impacts, such as those listed below:

- Ensure solid screen buffering trees, solid decorative walls, and/or other natural ground landscaping techniques are implemented along the property line of adjacent sensitive receptors
- Ensure all landscaping be drought tolerant

- Orient loading docks away from sensitive receptors unless physically impossible
- Locate loading docks a minimum of 300 feet away from the property line of sensitive receptor unless dock is exclusively used for electric trucks
- Incorporate signage and "pavement markings" to clearly identify on-site circulation patterns to minimize unnecessary on-site vehicle travel
- Locate truck entries on streets of a higher commercial classification
- Ensure all building roofs are solar-ready
- Ensure all portions of roof tops that are not covered with solar panels are constructed to have light colored roofing material with a solar reflective index of greater than 78
- Ensure rooftop solar panels are installed and operated to supply 100% of the power needed to operate all non-refrigerated portions of the development project
- Ensure power sources at loading docks for all refrigerated trucks have "plugin" capacity, which will eliminate prolonged idling while loading and unloading goods
- Incorporate bicycle racks and electric bike plug-ins
- Require the use of low volatile organic compounds (VOC) architectural and industrial maintenance coatings
- Designate an area during construction to charge electric powered construction vehicles and equipment, if temporary power is available
- Prohibit the use of non-emergency diesel-powered generators during construction
- Inform the project proponent of the incentive programs (e.g., Carl Moyer Program and Voucher Incentive Program) offered to reduce air emissions from the Project

6) Truck Routing

Truck routing involves the assessment of which roads Heavy Heavy-Duty (HHD) trucks take to and from their destination, and the emissions impact that the HHD trucks may have on residential communities and sensitive receptors. Since the Project consists of the construction and operation of a pistachio hulling, processing and packing facility, the Project has the potential to generate HHD truck trips.

The District recommends the County evaluate HHD truck routing patterns for the Project, with the aim of limiting exposure of residential communities and sensitive receptors to emissions. This evaluation would consider the current truck routes, the quantity and type of each truck (e.g., Medium Heavy-Duty, HHD, etc.), the destination and origin of each trip, traffic volume correlation with the time of day or the day of the week, overall Vehicle Miles Traveled (VMT), and associated exhaust emissions. The truck routing evaluation would also identify alternative truck routes and their impacts on VMT and air quality.

7) Cleanest Available Heavy-Duty Trucks

The San Joaquin Valley will not be able to attain stringent health-based federal air quality standards without significant reductions in emissions from HHD trucks, the single largest source of NOx emissions in the San Joaquin Valley. The District's CARB-approved 2018 PM2.5 Plan includes significant new reductions from HHD trucks, including emissions reductions by 2023 through the implementation of CARB's Statewide Truck and Bus Regulation, which requires truck fleets operating in California to meet the 2010 standard of 0.2 g-NOx/bhp-hr by 2023. Additionally, to meet federal air quality attainment standards, the District's Plan relies on a significant and immediate transition of HHD fleets to zero or near-zero emissions technologies, including the near-zero truck standard of 0.02 g/bhp-hr NOx established by CARB.

Since the Project consists of the construction and operation of a pistachio hulling, processing and packing facility, the Project has the potential to generate HHD truck trips. Since the Project may exceed the District significance thresholds, the District recommends that the following measures be considered by the County to reduce Project-related operational emissions:

- Recommended Measure: Fleets associated with operational activities utilize
 the cleanest available HHD trucks, including zero and near-zero (0.02 g/bhp-hr NOx) technologies.
- Recommended Measure: All on-site service equipment (cargo handling, yard hostlers, forklifts, pallet jacks, etc.) utilize zero-emissions technologies.

8) Reduce Idling of Heavy-Duty Trucks

The goal of this strategy is to limit the potential for localized PM2.5 and toxic air contaminant impacts associated with the idling of Heavy-Duty trucks. The diesel exhaust from idling has the potential to impose significant adverse health and environmental impacts.

Since the Project is expected to result in HHD truck trips, the District recommends the DEIR to include measures to ensure compliance of the state anti-idling regulation (13 CCR § 2485 and 13 CCR § 2480) and discuss the importance of limiting the amount of idling, especially near sensitive receptors. In addition, the District recommends the County consider the feasibility of implementing a more stringent 3-minute idling restriction and requiring appropriate signage and enforcement of idling restrictions.

9) Electric On-Site Off-Road and On-Road Equipment

The Project may have the potential to result in increased use of off-road equipment (e.g., forklifts) and on-road equipment (e.g., mobile yard trucks with the ability to move materials). The District recommends that the DEIR include requirements for project proponents to utilize electric or zero emission off-road and on-road equipment.

10) Vegetative Barriers and Urban Greening

There are single family residential units located south east and north east of the Project. The District suggests the County consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (e.g., residential units).

While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but are not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought tolerant, low-maintenance greenery.

11)On-Site Solar Deployment

It is the policy of the State of California that renewable energy resources and zerocarbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the County consider incorporating solar power systems as an emission reduction strategy for the Project.

12) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating

Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: www.valleyair.org/rules/1ruleslist.htm. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

12a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project will be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and will require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (559) 230-5888.

12b) District Rule 9510 - Indirect Source Review (ISR)

Per District Rule 9510 section 4.4.3, a development project on a facility whose primary functions are subject to District Rule 2201 or District Rule 2010 are exempt from the requirements of the rule. The District has reviewed the information provided and has determined that the primary functions of this Project are subject to District Rule 2201 (New and Modified Stationary Source Review Rule) or District Rule 2010 (Permits Required). As a result, District Rule 9510 requirements and related fees do not apply to the Project referenced above.

12c) District Rule 9410 (Employer Based Trip Reduction)

The Project may be subject to District Rule 9410 (Employer Based Trip Reduction) if the project would result in employment of 100 or more "eligible" employees. District Rule 9410 requires employers with 100 or more "eligible" employees at a worksite to establish an Employer Trip Reduction Implementation Plan (eTRIP) that encourages employees to reduce single-occupancy vehicle trips, thus reducing pollutant emissions associated with work

commutes. Under an eTRIP plan, employers have the flexibility to select the options that work best for their worksites and their employees.

Information about District Rule 9410 can be found online at: www.valleyair.org/tripreduction.htm.

For additional information, you can contact the District by phone at 559-230-6000 or by e-mail at etrip@valleyair.org

12d) District Rule 4601 (Architectural Coatings)

The Project may be subject to District Rule 4601 since it may utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements. Additional information on how to comply with District Rule 4601 requirements can be found online at: http://www.valleyair.org/rules/currntrules/r4601.pdf

12e) District Regulation VIII (Fugitive PM10 Prohibitions)

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at:

https://www.valleyair.org/busind/comply/PM10/forms/DCP-Form.docx

Information about District Regulation VIII can be found online at: http://www.valleyair.org/busind/comply/pm10/compliance_pm10.htm

12f) Other District Rules and Regulations

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

13) District Comment Letter

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Harout Sagherian by e-mail at <u>Harout.Sagherian@valleyair.org</u> or by phone at (559) 230-5860.

Sincerely,

Brian Clements
Director of Permit Services

Mark Montelongo Program Manager



NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE S. STAMOULES, INC. PISTACHIO PROCESSING FACILITY PROJECT

Date:

July 6, 2022

To:

Office of Planning and Research, Responsible and Trustee Agencies, Other Public

Agencies and Other Interested Parties

Subject:

Notice of Preparation of Draft Environmental Impact Report for the

S. Stamoules, Inc. Pistachio Processing Facility

Lead Agency:

Fresno County

Contact:

Ejaz Ahmad, Planner

Department of Public Works and Planning

Development Services Division 2220 Tulare Street, 6th floor

Fresno, CA 93721 (559) 600-4204

EAhmad@FresnoCountyCA.gov

Comment Period: July 8, 2022, to August 9, 2022

PURPOSE OF NOTICE

Fresno County (County) is the lead agency responsible for preparation of an Environmental Impact Report (EIR) for the S. Stamoules, Inc. Pistachio Processing Facility Project (proposed project). Pursuant to provisions of the California Environmental Quality Act (CEQA), the County has prepared this Notice of Preparation (NOP) for the proposed project. Once a decision is made to prepare an EIR, the lead agency must prepare a NOP to inform all responsible and trustee agencies that an EIR will be prepared (CEQA Guidelines Section 15082). The purpose of this NOP is to provide agencies, interested parties, and organizations with sufficient information describing the proposed project and the potential environmental effects to enable meaningful input related to the scope and content of information to be included in the EIR.

PUBLIC REVIEW PERIOD

This NOP is being circulated for public review and comment for a period of 30 days beginning July 8, 2022. The County requests that any potential Responsible or Trustee Agencies responding to this NOP reply in a manner consistent with Section 15082(b) of the CEQA Guidelines, which allows for submittal of any comments in response to this notice no later than 30 days after receipt of the NOP. Comments in response to this NOP will be accepted through 5:00 p.m., August 9, 2022. Please send your written comments to Mr. Ahmad and include your name, address, and phone number and/or email address so that we may contact you for clarification, if necessary.

NECEIVED

PUBLIC SCOPING MEETING

The County will hold a public scoping meeting to inform interested parties about the proposed project and to provide agencies and the public with an opportunity to provide comments on the scope and content of the EIR. The meeting time and location is as follows:

Date: Monday, July 25, 2022 Time: 4 p.m. to 4:30 p.m.

http://bit.ly/stamoulesscopemeeting Meeting ID: 220 639 430 437; Passcode:

dGW56V, or

Call-in (audio only): 1 559-494-4226; Conference ID: 756 743 547#

PROJECT DESCRIPTION

Link:

S. Stamoules Inc. (Project Applicant) proposes to build a pistachio hulling, processing, and packing facility on a 98-acre portion of a 316.2-acre parcel located in western Fresno County, 8 miles southwest of the City of Mendota. Trucks carrying pistachios from the Project Applicant's orchards would deposit their load on a conveyor belt system that would transport the pistachios through different sections of the proposed facility that include a huller building, a gas-powered dryer area, a drive-over dump pit area, and an area with storage silos which are proposed to be 50 feet in height. Additionally, the processed water from the facility will be conveyed via existing subsurface piping to irrigate approximately 3,740 acres of agricultural land owned by the owner and are located approximately two to six miles to the northeast of the project site located on the northwest corner of S. Newcomb Avenue and W. Muscat Avenue approximately 9.7 mile south of the City of Firebaugh.

The proposed project would be implemented in four phases, and each phase would include the construction and addition of buildings, working areas and equipment to increase the capacity of the project site. Attached to this notice are four figures showing the project location, proposed site plan, partial Site Plan and Process Water Land Application Area.

Phase I of the project would include the construction of a 16,893 square-foot huller building, an approximately 5,608 square-foot drive-over dumping pit area, and an approximately 3,900 square-foot pre-cleaning area. Ten 8 by 29 feet dryers and 18 52- by 52-foot galvanized steel silos, each of 2,200,000-pound capacity, would be added to the project site west of the proposed huller building under Phase I of the proposed project.

Phase II of the project would include the construction of a 155,169-square-foot processing building for pistachios.

Phase III of the project would include the installation of processing, sorting, and packing equipment in the pistachio processing building, as well as the construction of twelve additional silos and the installation of ten additional dryer units.

Finally, Phase IV of the project would include the construction of a second 16,893-square-foot huller building, an additional drive-over dumping pit area and pre-cleaning area, and the construction and installation of 30 additional silos and 20 dryer units.

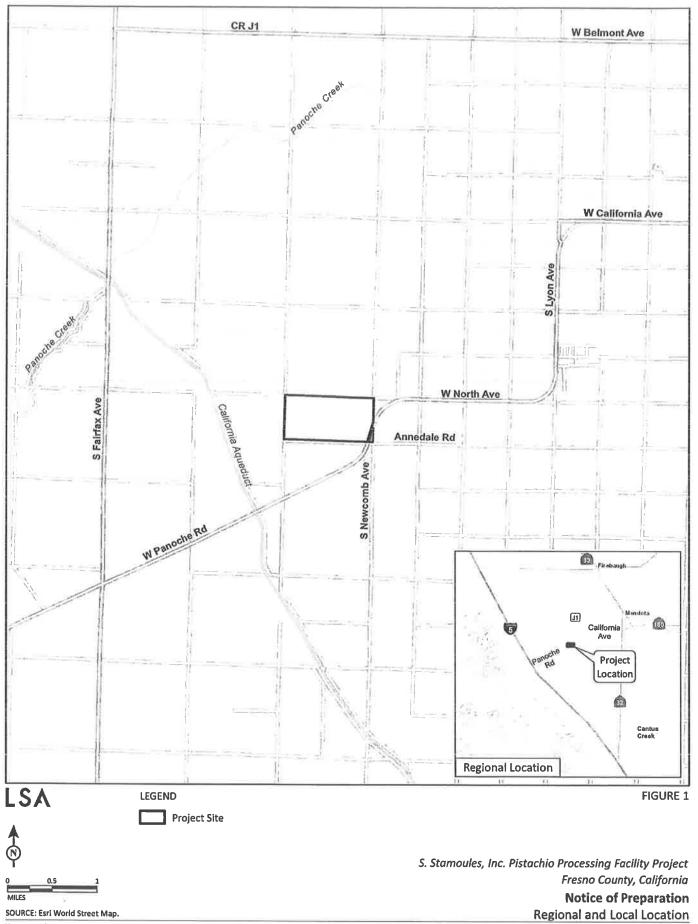
POTENTIAL ENVIRONMENTAL EFFECTS

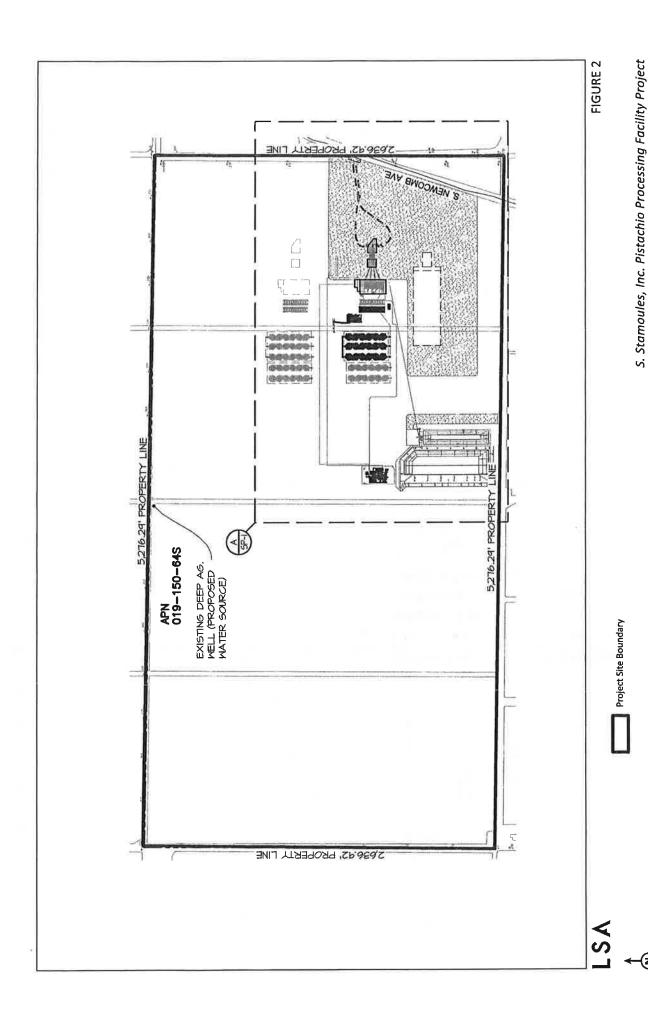
The S. Stamoules, Inc. Pistachio Processing Facility EIR will evaluate the potential environmental impacts of the proposed project, after having first established the environmental setting, or baseline, for the environmental analysis. The significance of potential impacts, cumulative impacts, and appropriate mitigation measures associated with implementation of the project will be thoroughly discussed in the EIR.

The following environmental resource topic areas will be evaluated in the EIR:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions

- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems

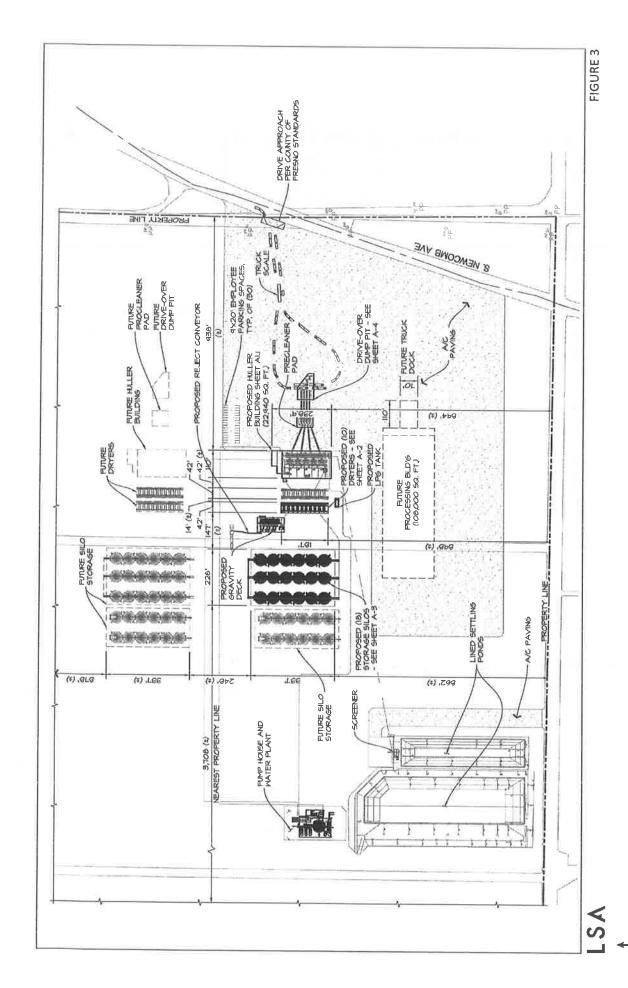




SOURCE: Engel & Company, 2020
FREProjects:\CFF2201 OPA Pistachio\PRODUCTS\Project Description\Figures\Figure 2.ai (4/19/2022)

NOT TO SCALE

Fresno County, California Notice of Preparation Project Site Plan



S. Stamoules, Inc. Pistachio Processing Facility Project

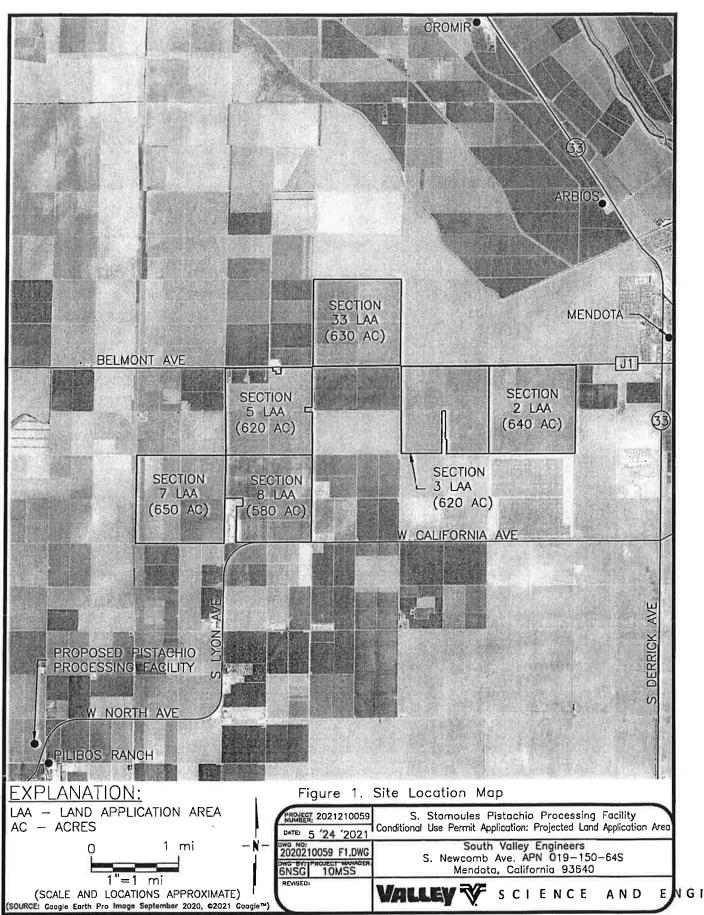
Fresno County, California

Notice of Preparation Partial Site Plan

SOURCE: Engel & Company, 2020

NOT TO SCALE

FREProjects:\CFF2201 OPA Pistachio\PRODUCTS\Project Description\Figures\Figure 3.ai (4/19/2022)





APPENDIX B

CALEEMOD OUTPUT SHEETS

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S. Stamoules, Inc. Pistachio Processing Facility Custom Report

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S. Stamoules, Inc. Pistachio Processing Facility Custom Report, 10/3/2023

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5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	S. Stamoules, Inc. Pistachio Processing Facility
Construction Start Date	6/3/2024
Operational Year	2031
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.68793628731633, -120.52393360479269
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2529
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

General Heavy Industry	201	1000sqft	4.60	201,049	0.00	_	_	_
Other Non-Asphalt Surfaces	9.51	1000sqft	93.2	0.00	0.00	_	_	_
Parking Lot	30.0	Space	0.30	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.45	39.9	30.8	0.06	1.39	7.76	8.88	1.28	3.96	4.98	_	6,871	6,871	0.28	0.11	6,896
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	41.4	39.7	30.7	0.06	1.39	3.70	5.08	1.28	1.45	2.73	_	6,857	6,857	0.28	0.11	6,882
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.22	14.8	12.3	0.02	0.50	1.82	2.30	0.46	0.83	1.27	_	2,359	2,359	0.10	0.08	2,384
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.59	2.70	2.24	< 0.005	0.09	0.33	0.42	0.08	0.15	0.23	_	391	391	0.02	0.01	395

2.2. Construction Emissions by Year, Unmitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.45	39.9	30.8	0.06	1.39	7.76	8.88	1.28	3.96	4.98	<u> </u>	6,871	6,871	0.28	0.06	6,896
2025	1.01	19.8	17.8	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,343	3,343	0.12	0.11	3,381
2026	0.98	19.7	17.5	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,324	3,324	0.12	0.11	3,361
2027	0.96	19.7	17.3	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,304	3,304	0.12	0.10	3,340
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.44	39.7	30.7	0.06	1.39	3.70	5.08	1.28	1.45	2.73	_	6,857	6,857	0.28	0.11	6,882
2025	0.96	19.8	17.2	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,286	3,286	0.13	0.11	3,321
2026	0.94	19.8	17.0	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,268	3,268	0.13	0.11	3,303
2027	41.4	19.8	16.8	0.03	0.69	0.57	1.26	0.65	0.14	0.79	-	3,250	3,250	0.13	0.10	3,284
2028	41.4	1.12	1.36	< 0.005	0.07	0.09	0.16	0.06	0.02	0.08	-	219	219	0.01	0.01	221
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.71	14.8	11.3	0.02	0.48	1.82	2.30	0.44	0.83	1.27	_	2,341	2,341	0.10	0.03	2,351
2025	0.69	14.1	12.3	0.02	0.50	0.40	0.90	0.46	0.10	0.56	_	2,359	2,359	0.09	0.08	2,384
2026	0.68	14.1	12.1	0.02	0.50	0.40	0.90	0.46	0.10	0.56	_	2,346	2,346	0.09	0.08	2,371
2027	3.22	11.9	10.1	0.02	0.44	0.30	0.74	0.41	0.07	0.48	_	1,894	1,894	0.07	0.05	1,912
2028	2.84	0.08	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	_	15.2	15.2	< 0.005	< 0.005	15.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.13	2.70	2.07	< 0.005	0.09	0.33	0.42	0.08	0.15	0.23	_	388	388	0.02	< 0.005	389
2025	0.13	2.58	2.24	< 0.005	0.09	0.07	0.16	0.08	0.02	0.10	_	391	391	0.01	0.01	395
2026	0.12	2.58	2.21	< 0.005	0.09	0.07	0.16	0.08	0.02	0.10	_	388	388	0.01	0.01	393
2027	0.59	2.18	1.85	< 0.005	0.08	0.06	0.13	0.07	0.01	0.09	_	314	314	0.01	0.01	317

2028 0.52 0.01 0.02 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 - 2.52 2.52 < 0.005 < 0.005 2.52 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.	2028	0.52	0.01	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_		2.52	< 0.005	< 0.005	2.54
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2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.85	3.36	12.2	0.02	0.26	0.20	0.47	0.26	0.05	0.31	2,904	10,773	13,677	293	1.60	21,534
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.41	3.30	3.24	0.02	0.25	0.20	0.45	0.25	0.05	0.30	2,904	10,715	13,619	293	1.60	21,476
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.12	3.33	7.59	0.02	0.26	0.20	0.46	0.25	0.05	0.31	2,904	7,699	10,603	293	1.54	18,430
Annual (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Unmit.	1.12	0.61	1.38	< 0.005	0.05	0.04	0.08	0.05	0.01	0.06	481	1,275	1,755	48.5	0.25	3,051

2.5. Operations Emissions by Sector, Unmitigated

Sector	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.05	0.03	0.69	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	_	192	192	< 0.005	< 0.005	193
Area	6.63	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	9,860	9,860	1.31	0.12	9,930

Water	_	_	_	_	_		_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	6.85	3.36	12.2	0.02	0.26	0.20	0.47	0.26	0.05	0.31	2,904	10,773	13,677	293	1.60	21,534
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.04	0.04	0.50	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	_	170	170	< 0.005	< 0.005	171
Area	5.19	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	9,860	9,860	1.31	0.12	9,930
Water	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	5.41	3.30	3.24	0.02	0.25	0.20	0.45	0.25	0.05	0.30	2,904	10,715	13,619	293	1.60	21,476
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.04	0.03	0.54	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	_	176	176	< 0.005	< 0.005	177
Area	5.90	0.04	4.31	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.7	17.7	< 0.005	< 0.005	17.8
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	6,820	6,820	0.82	0.06	6,860
Water	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	6.12	3.33	7.59	0.02	0.26	0.20	0.46	0.25	0.05	0.31	2,904	7,699	10,603	293	1.54	18,430
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.01	0.01	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	29.1	29.1	< 0.005	< 0.005	29.4
Area	1.08	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95

Energy	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	-	1,129	1,129	0.14	0.01	1,136
Water	_	_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538
Waste	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	1.12	0.61	1.38	< 0.005	0.05	0.04	0.08	0.05	0.01	0.06	481	1,275	1,755	48.5	0.25	3,051

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	_	1.12	1.02	_	1.02	_	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement		_	_	_	_	7.67	7.67	_	3.94	3.94	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.15	5.46	3.88	0.01	0.15	_	0.15	0.14	_	0.14	_	725	725	0.03	0.01	728

Dust From Material Movement	_	_	_	_	_	1.05	1.05	_	0.54	0.54	_	_	_	_	_	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.03	1.00	0.71	< 0.005	0.03	_	0.03	0.03	_	0.03	-	120	120	< 0.005	< 0.005	121
Dust From Material Movement		_	_	_	_	0.19	0.19	_	0.10	0.10	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.08	0.04	0.71	0.00	0.00	0.10	0.10	0.00	0.02	0.02	_	108	108	0.01	< 0.005	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.6	13.6	< 0.005	< 0.005	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.26	2.26	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

ontena P	onutants	(ID/day		ton/yr for	_	and GHGS	s (ib/day	for daily, N	/II/yI IOI a	annuai)						
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	2.36	39.6	30.0	0.06	1.39	_	1.39	1.28	_	1.28	_	6,747	6,747	0.27	0.05	6,770
Dust From Material Movement	_	_	_	_	_	3.59	3.59	_	1.42	1.42	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	2.36	39.6	30.0	0.06	1.39	_	1.39	1.28	_	1.28	_	6,747	6,747	0.27	0.05	6,770
Dust From Material Movement	_	_	_	_	_	3.59	3.59	_	1.42	1.42	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.45	7.59	5.76	0.01	0.27	_	0.27	0.25	_	0.25	_	1,294	1,294	0.05	0.01	1,298
Dust From Material Movement		_	_	_	_	0.69	0.69	_	0.27	0.27	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Annual	_	_	_	_	_	_	_	<u> </u>	_	_	_	-	<u> </u>	_	_	_
Off-Road Equipment	0.08	1.39	1.05	< 0.005	0.05	-	0.05	0.04	_	0.04	-	214	214	0.01	< 0.005	215
Dust From Material Movement	_	_	_	_	_	0.13	0.13	_	0.05	0.05	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.05	0.81	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	124	124	0.01	0.01	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Worker	0.08	0.06	0.66	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	110	110	0.01	0.01	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-
Worker	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	21.8	21.8	< 0.005	< 0.005	22.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.62	3.62	< 0.005	< 0.005	3.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2024) - Unmitigated

				ton/yr for												
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.05	1.62	1.23	< 0.005	0.06	_	0.06	0.06	_	0.06	_	206	206	0.01	< 0.005	207
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.01	0.30	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	34.2	34.2	< 0.005	< 0.005	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.34	0.27	2.77	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	464	464	0.02	0.02	471
Vendor	0.02	0.77	0.34	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	442	442	0.01	0.06	462
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	41.4	41.4	< 0.005	< 0.005	42.1
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	38.0	38.0	< 0.005	0.01	39.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.85	6.85	< 0.005	< 0.005	6.97
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<u> </u>	6.30	6.30	< 0.005	< 0.005	6.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

		(1.07 0.0.)	,	, ,			(1.0, 0.0.)	,	.,,							
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_		_	_	_		_			_	_	_	_
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	_	0.49	0.46	_	0.46	_	1,713	1,713	0.07	0.01	1,719
Onsite ruck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	_	0.09	0.08	_	0.08	_	284	284	0.01	< 0.005	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vorker	0.36	0.19	3.14	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	512	512	0.01	0.02	521
Vendor	0.02	0.70	0.31	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	433	433	0.01	0.06	454
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.32	0.23	2.55	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	454	454	0.02	0.02	461
/endor	0.02	0.74	0.32	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	434	434	0.01	0.06	454
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_		_	_	_		_		_	_	_	_	_
Norker	0.23	0.15	1.85	0.00	0.00	0.32	0.32	0.00	0.08	0.08	_	336	336	0.01	0.02	342
Vendor	0.02	0.52	0.23	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	_	310	310	0.01	0.05	324
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.04	0.03	0.34	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	55.7	55.7	< 0.005	< 0.005	56.6
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	51.3	51.3	< 0.005	0.01	53.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	-	-	_	_	_	_	-	_	_	_	_	-
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	_	0.49	0.46	_	0.46	_	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	_	0.09	0.08	_	0.08	-	283	283	0.01	< 0.005	284

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Worker	0.34	0.17	2.89	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	501	501	0.01	0.02	510
Vendor	0.02	0.67	0.30	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	425	425	0.01	0.06	446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.30	0.21	2.34	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	445	445	0.02	0.02	452
Vendor	0.02	0.72	0.32	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	426	426	0.01	0.06	445
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.22	0.14	1.70	0.00	0.00	0.32	0.32	0.00	0.08	0.08	_	329	329	0.01	0.02	335
Vendor	0.02	0.50	0.22	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	_	304	304	0.01	0.05	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	-	_	_	_	_	_	_	<u> </u>	_	_	_	_
Worker	0.04	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	54.5	54.5	< 0.005	< 0.005	55.4
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	50.3	50.3	< 0.005	0.01	52.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	-	_	_	_	-	_	_
Off-Road Equipment	0.32	9.60	7.28	0.01	0.35	_	0.35	0.33	_	0.33	_	1,220	1,220	0.05	0.01	1,224
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.06	1.75	1.33	< 0.005	0.06	_	0.06	0.06	_	0.06	_	202	202	0.01	< 0.005	203
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	-	_	_	_	_	_	-	_	_	_	_
Worker	0.32	0.16	2.67	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	491	491	0.01	0.02	499
Vendor	0.02	0.65	0.29	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	416	416	0.01	0.06	436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.27	0.19	2.17	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	436	436	0.02	0.02	443
Vendor	0.02	0.70	0.31	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	417	417	0.01	0.06	436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.09	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	230	230	0.01	0.01	234
Vendor	0.01	0.35	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	212	212	0.01	0.03	222
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	38.0	38.0	< 0.005	< 0.005	38.7
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	35.1	35.1	< 0.005	0.01	36.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

								dany, ivi								
Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	_	0.58	0.54	_	0.54	_	1,511	1,511	0.06	0.01	1,516
Paving	0.02	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Daily,	_						_		_							
Winter (Max)																
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	_	0.58	0.54	_	0.54	_	1,511	1,511	0.06	0.01	1,516
Paving	0.02	_	_	_	_	_	_	_	_	_	-	-	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.07	1.82	1.45	< 0.005	0.08	_	0.08	0.07	_	0.07	_	207	207	0.01	< 0.005	208
Paving	< 0.005	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.01	0.33	0.27	< 0.005	0.01	_	0.01	0.01	_	0.01	_	34.3	34.3	< 0.005	< 0.005	34.4
Paving	< 0.005	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.03	0.47	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	87.2	87.2	< 0.005	< 0.005	88.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	0.05	0.03	0.39	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	77.4	77.4	< 0.005	< 0.005	78.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.0	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.82	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	_	0.07	0.06	_	0.06	_	134	134	0.01	< 0.005	134
Architectu ral Coatings	41.3	_	_	_	_		_	_	_		_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipment	< 0.005	0.07	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	8.62	8.62	< 0.005	< 0.005	8.65
Architectu ral Coatings	2.67	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.43	1.43	< 0.005	< 0.005	1.43
Architectu ral Coatings	0.49	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.04	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	87.2	87.2	< 0.005	< 0.005	88.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	-	_	_	_	_	_	_	-	_	_	-	-
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.83	5.83	< 0.005	< 0.005	5.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	0.98

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2028) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	_	0.07	0.06	_	0.06	_	134	134	0.01	< 0.005	134
Architectu ral Coatings	41.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipment	< 0.005	0.07	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	9.15	9.15	< 0.005	< 0.005	9.18
Architectu ral Coatings	2.83	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.51	1.51	< 0.005	< 0.005	1.52

Architectu Coatings	0.52	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.04	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	85.5	85.5	< 0.005	< 0.005	86.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.07	6.07	< 0.005	< 0.005	6.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	<u> </u>	1.00	1.00	< 0.005	< 0.005	1.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
General Heavy Industry	0.05	0.03	0.69	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	_	192	192	< 0.005	< 0.005	193
Other Non-Asphal Surfaces	0.00 lt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.03	0.69	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	_	192	192	< 0.005	< 0.005	193
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	_	-	-	_	_	_	-
General Heavy Industry	0.04	0.04	0.50	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	-	170	170	< 0.005	< 0.005	171
Other Non-Asphal Surfaces	0.00 lt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.04	0.04	0.50	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.05	_	170	170	< 0.005	< 0.005	171
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.01	0.01	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	29.1	29.1	< 0.005	< 0.005	29.4
Other Non-Asphal Surfaces	0.00 lt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

- 1	Total	0.01	0.01	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	29.1	29.1	< 0.005	< 0.005	29.4

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	718	718	0.12	0.01	725
Other Non-Aspha Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	6.40	6.40	< 0.005	< 0.005	6.46
undefined	_	_	_	_	_	_	_	_	_	_	_	5,246	5,246	0.85	0.10	5,298
Total	_	_	_	_	_	_	_	_	_	_	_	5,970	5,970	0.97	0.12	6,029
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	718	718	0.12	0.01	725
Other Non-Aspha Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	6.40	6.40	< 0.005	< 0.005	6.46
undefined	_	_	_	_	_	_	_	_	_	_	_	5,246	5,246	0.85	0.10	5,298
Total	_	_	_	_	_	_	_	_	_	_	_	5,970	5,970	0.97	0.12	6,029

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	119	119	0.02	< 0.005	120
Other Non-Asphal Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	1.06	1.06	< 0.005	< 0.005	1.07
undefined	_	_	_	_	_	_	_	_	_	_	_	365	365	0.06	0.01	369
Total	_	_	_	_	_	_	_	_	_	_	_	485	485	0.08	0.01	490

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Other Non-Aspha Surfaces	0.00 alt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900

Other Non-Asphal Surfaces	0.00 lt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	0.00
Total	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	644	644	0.06	< 0.005	646
Other Non-Asphal Surfaces	0.00 lt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	644	644	0.06	< 0.005	646

4.3. Area Emissions by Source

4.3.1. Unmitigated

		` ,	J ,				` ,	J /								
Source	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	4.62	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Architectu ral Coatings	0.57	_	_		_	_	_	_	_	_	_	_	_	_	_	_

Landscap e Equipmen t	1.44	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Total	6.63	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	4.62	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architectu ral Coatings	0.57	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	5.19	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	0.84	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Architectu ral Coatings	0.10	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landscap e Equipmen t	0.13	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95
Total	1.08	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

															4	
															4	
I and I lac I		INIOv	100	1000			LDMAOT			I DMO ET	IDCO	INDCO	I C C O T		INO	
i and use	IKUG	NOx	ICO	130/	IPIVITUE	IPIVITUU	IPIVITOI	I PIVIZ-DE	TPIVIZ.DIJ	I PIVIZ.O I	IDUU	INDUU	160/1	1004	N2O	TUUZE I

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Other Non-Aspha Surfaces	 It	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Other Non-Aspha Surfaces	 It	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	-	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry		_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538
Other Non-Aspha Surfaces	 lt	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	-	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Other Non-Aspha Surfaces	— Ilt	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	-	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	-	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Other Non-Aspha Surfaces	— Ilt	_	_	_	-	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336

Other Non-Aspha Surfaces	— alt	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

			or dally, it								D000	NDCCC	COOT	CH4	NOO	000
Land Use	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Daily, Winter (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

							<u> </u>	or dally, iv								
Equipmen	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
т Туре																
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00

Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipmen t	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipmen t Type	ROG		со								BCO2	NBCO2	СО2Т	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

			or daily, to													
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	6/3/2024	8/9/2024	5.00	50.0	_
Grading	Grading	8/12/2024	11/15/2024	5.00	70.0	_
Building Construction	Building Construction	11/18/2024	9/17/2027	5.00	740	_
Paving	Paving	9/20/2027	11/26/2027	5.00	50.0	_
Architectural Coating	Architectural Coating	11/29/2027	2/4/2028	5.00	50.0	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40

Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	_	4.00	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	20.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	_	4.00	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	84.4	7.70	LDA,LDT1,LDT2

Building Construction	Vendor	33.0	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	_	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_
Architectural Coating	Worker	16.9	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	301,574	100,525	244,372

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	_	_	75.0	0.00	_
Grading	_	_	210	0.00	_
Paving	0.00	0.00	0.00	0.00	93.5

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Heavy Industry	0.00	0%
Other Non-Asphalt Surfaces	93.2	0%
Parking Lot	0.30	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	47.0	47.0	47.0	17,172	685	685	685	249,904
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	301,574	100,525	244,372

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	1,285,272	204	0.0330	0.0040	12,136,607
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	11,448	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	311,400,000	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	4,280	_
Other Non-Asphalt Surfaces	0.00	_
Parking Lot	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type Equipment Type Refrigerant GWP	Quantity (kg) Operations Leak Rate Service Leak Rate	Times Serviced
--	--	----------------

General Heavy Industry	Other commercial A/C	R-410A	2,088	0.30	4.00	4.00	18.0
	and heat pumps						

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Other Material Handling Equipment	Electric	Average	3.00	18.0	64.0	0.80
Other Material Handling Equipment	Electric	Average	2.00	18.0	6.00	0.80
Other Material Handling Equipment	Electric	Average	10.0	18.0	45.3	0.80
Other General Industrial Equipment	Electric	Average	10.0	18.0	53.0	0.80
Forklifts	Electric	Average	10.0	18.0	82.0	0.20
Skid Steer Loaders	Electric	Average	10.0	18.0	71.0	0.37
Rubber Tired Loaders	Electric	Average	10.0	18.0	150	0.36

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type Fuel Type Number per Day Heure per Day Heure per Veer Hereepower	Load Footor
Equipment Type Fuel Type Number per Day Hours per Day Hours per Year Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Innut (MMRtu/yr)
Equipment Type	i dei Type	Number	Doller Rating (MMDtd/III)	Daily Heat Input (Wilviblu/day)	Annual Fleat Input (MiMbtu/yi)

5.17. User Defined

Equipment Type Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Managadan Land Haar Rosa	Manager Call Time	Late A and a	I The state of the second
Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
	1 - 9		

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
noo iyoo	Tamboi	Electricity Savea (KVVIII) Sar)	Hatarar Sas Savea (StarySar)

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction of the proposed project is expected to occur intermittently in four phases over a period of approximately 44 months starting in 2024. To be conservative, this analysis assumes an overall 44-month schedule.
Construction: Off-Road Equipment	Assuming the use of Tier 2 construction equipment.
Operations: Vehicle Data	The proposed project would include 43 employee trips and 4 service vehicle trips. Raw Material Hauling Trucks and Dry Waste Hauling Trucks evaluated in a separate model run

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Fleet mix was revised to reflect 43 employee trips and 4 service vehicle trips (100% LHD2). All hauling trips are evaluated in a separate model run.
Daily Electrical and natural gas demand for these phases is based on in Table 3.A of the Project Description (assuming the equipment uses would be not subject to Title 24).
The project will include the following equipment: - 3 Forsburgs Gravity Deck, each consisting of a 1 HP motor, a 3 HP motor and a 60 HP motor with a 0.8-load factor. The main power used in the operation of these units is electricity. - 2 LMC Scalpers, each consisting of a 1 HP motor and a 5 HP motor with a 0.8-load factor. The main power used in the operation of these units is electricity. - 10 Magnuson Peeler machines, each consisting of a 0.75 HP motor, a 2 HP motor, a 7.5 HP motor, a 15 HP motor and a 20 HP motor with a 0,8-load factor. The main power used in the operation of these units is electricity. - 10 Sukup Dryers, each consisting of a 1HP motor, a 2 HP motor, a 10 HP motor, and a 4x40 HP motor with a 0.8 load factor. These unit will run off natural gas and electricity (this analysis is assuming electric as CalEEMod doesn't provide default emission factors for CNG). The harvest season is 45 days long and which time the machinery would be running 8 hours a day for a total of 810 hours. Also assuming 10 forklifts, 10 skid steer loaders, and 10 rubber tired loaders.
The project site is 98 acres in size. Assuming that all areas not covered by buildings or the parking lot would be paved as no landscaping is proposed for the project site.
It is estimated that the project site would produce approximately 8,562,667 pounds of solid waste.
The proposed project would generate approximately 311.4 million gallons of wastewater annually.

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5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	S. Stamoules, Inc. Pistachio Processing Facility - HHDT
Construction Start Date	6/3/2024
Operational Year	2031
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.68793628731633, -120.52393360479269
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2529
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

General Heavy Industry	201	1000sqft	4.60	201,049	0.00	_	_	_
Other Non-Asphalt Surfaces	9.51	1000sqft	93.2	0.00	0.00	_	_	_
Parking Lot	30.0	Space	0.30	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.45	39.9	30.8	0.06	1.39	7.76	8.88	1.28	3.96	4.98	_	6,871	6,871	0.28	0.11	6,896
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	41.4	39.7	30.7	0.06	1.39	3.70	5.08	1.28	1.45	2.73	_	6,857	6,857	0.28	0.11	6,882
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.22	14.8	12.3	0.02	0.50	1.82	2.30	0.46	0.83	1.27	_	2,359	2,359	0.10	0.08	2,384
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.59	2.70	2.24	< 0.005	0.09	0.33	0.42	0.08	0.15	0.23	_	391	391	0.02	0.01	395

2.2. Construction Emissions by Year, Unmitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.45	39.9	30.8	0.06	1.39	7.76	8.88	1.28	3.96	4.98	_	6,871	6,871	0.28	0.06	6,896
2025	1.01	19.8	17.8	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,343	3,343	0.12	0.11	3,381
2026	0.98	19.7	17.5	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,324	3,324	0.12	0.11	3,361
2027	0.96	19.7	17.3	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,304	3,304	0.12	0.10	3,340
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.44	39.7	30.7	0.06	1.39	3.70	5.08	1.28	1.45	2.73	_	6,857	6,857	0.28	0.11	6,882
2025	0.96	19.8	17.2	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,286	3,286	0.13	0.11	3,321
2026	0.94	19.8	17.0	0.03	0.69	0.57	1.26	0.65	0.14	0.79	_	3,268	3,268	0.13	0.11	3,303
2027	41.4	19.8	16.8	0.03	0.69	0.57	1.26	0.65	0.14	0.79	-	3,250	3,250	0.13	0.10	3,284
2028	41.4	1.12	1.36	< 0.005	0.07	0.09	0.16	0.06	0.02	0.08	-	219	219	0.01	0.01	221
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.71	14.8	11.3	0.02	0.48	1.82	2.30	0.44	0.83	1.27	_	2,341	2,341	0.10	0.03	2,351
2025	0.69	14.1	12.3	0.02	0.50	0.40	0.90	0.46	0.10	0.56	_	2,359	2,359	0.09	0.08	2,384
2026	0.68	14.1	12.1	0.02	0.50	0.40	0.90	0.46	0.10	0.56	_	2,346	2,346	0.09	0.08	2,371
2027	3.22	11.9	10.1	0.02	0.44	0.30	0.74	0.41	0.07	0.48	_	1,894	1,894	0.07	0.05	1,912
2028	2.84	0.08	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	_	15.2	15.2	< 0.005	< 0.005	15.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.13	2.70	2.07	< 0.005	0.09	0.33	0.42	0.08	0.15	0.23	_	388	388	0.02	< 0.005	389
2025	0.13	2.58	2.24	< 0.005	0.09	0.07	0.16	0.08	0.02	0.10	_	391	391	0.01	0.01	395
2026	0.12	2.58	2.21	< 0.005	0.09	0.07	0.16	0.08	0.02	0.10	_	388	388	0.01	0.01	393
2027	0.59	2.18	1.85	< 0.005	0.08	0.06	0.13	0.07	0.01	0.09	_	314	314	0.01	0.01	317

	2028	0.52	0.01	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.52	2.52	< 0.005	< 0.005	2.54
- 1																	

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	7.18	29.0	16.7	0.24	0.73	7.37	8.10	0.71	1.98	2.69	2,904	34,449	37,352	294	5.37	46,383
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.72	30.7	8.01	0.24	0.72	7.37	8.08	0.69	1.98	2.68	2,904	34,422	37,325	294	5.37	46,316
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.44	30.2	12.3	0.24	0.72	7.29	8.01	0.70	1.96	2.66	2,904	31,395	34,298	293	5.31	43,275
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.18	5.51	2.24	0.04	0.13	1.33	1.46	0.13	0.36	0.49	481	5,198	5,678	48.5	0.88	7,165

2.5. Operations Emissions by Sector, Unmitigated

Sector	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.37	25.7	5.20	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,867	23,867	0.36	3.77	25,042
Area	6.63	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	9,860	9,860	1.31	0.12	9,930

Water	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	7.18	29.0	16.7	0.24	0.73	7.37	8.10	0.71	1.98	2.69	2,904	34,449	37,352	294	5.37	46,383
Daily, Winter (Max)	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_
Mobile	0.35	27.4	5.27	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,876	23,876	0.36	3.78	25,012
Area	5.19	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	9,860	9,860	1.31	0.12	9,930
Water	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00		0.00	0.00	0.00	0.00	0.00
Total	5.72	30.7	8.01	0.24	0.72	7.37	8.08	0.69	1.98	2.68	2,904	34,422	37,325	294	5.37	46,316
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.36	26.9	5.23	0.22	0.47	7.29	7.76	0.45	1.96	2.41	_	23,871	23,871	0.36	3.77	25,023
Area	5.90	0.04	4.31	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.7	17.7	< 0.005	< 0.005	17.8
Energy	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	6,820	6,820	0.82	0.06	6,860
Water	_	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Waste	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	6.44	30.2	12.3	0.24	0.72	7.29	8.01	0.70	1.96	2.66	2,904	31,395	34,298	293	5.31	43,275
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.07	4.91	0.95	0.04	0.09	1.33	1.42	0.08	0.36	0.44	_	3,952	3,952	0.06	0.62	4,143
Area	1.08	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95

Energy	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	1,129	1,129	0.14	0.01	1,136
Water	_	_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538
Waste	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66
Off-Road	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	1.18	5.51	2.24	0.04	0.13	1.33	1.46	0.13	0.36	0.49	481	5,198	5,678	48.5	0.88	7,165

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	_	1.12	1.02	_	1.02	_	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement		_	_	_	_	7.67	7.67	_	3.94	3.94	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.15	5.46	3.88	0.01	0.15	_	0.15	0.14	_	0.14	_	725	725	0.03	0.01	728

Dust From Material Movement	_	_	_	_	_	1.05	1.05	_	0.54	0.54	_		-	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.03	1.00	0.71	< 0.005	0.03	_	0.03	0.03	-	0.03	_	120	120	< 0.005	< 0.005	121
Dust From Material Movement	_	_	_	_	-	0.19	0.19	_	0.10	0.10	_		-	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_
Worker	0.08	0.04	0.71	0.00	0.00	0.10	0.10	0.00	0.02	0.02	_	108	108	0.01	< 0.005	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.6	13.6	< 0.005	< 0.005	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.26	2.26	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

ontena P	onutants	(ID/day		ton/yr for	_	and GHGS	s (ib/day	for daily, N	/II/yI IOI a	annuai)						
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	2.36	39.6	30.0	0.06	1.39	_	1.39	1.28	_	1.28	_	6,747	6,747	0.27	0.05	6,770
Dust From Material Movement	_	_	_	_	_	3.59	3.59	_	1.42	1.42	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	2.36	39.6	30.0	0.06	1.39	_	1.39	1.28	_	1.28	_	6,747	6,747	0.27	0.05	6,770
Dust From Material Movement	_	_	_	_	_	3.59	3.59	_	1.42	1.42	_	_		_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.45	7.59	5.76	0.01	0.27	_	0.27	0.25	_	0.25	_	1,294	1,294	0.05	0.01	1,298
Dust From Material Movement	_	_	_	_	_	0.69	0.69	_	0.27	0.27	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.08	1.39	1.05	< 0.005	0.05	_	0.05	0.04	_	0.04	_	214	214	0.01	< 0.005	215
Dust From Material Movement	_	_	_	_	_	0.13	0.13	_	0.05	0.05	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.05	0.81	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	124	124	0.01	0.01	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.08	0.06	0.66	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	110	110	0.01	0.01	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	21.8	21.8	< 0.005	< 0.005	22.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.62	3.62	< 0.005	< 0.005	3.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_		_	_	_	_	_		_		_	_	_		_
Off-Road Equipment	0.05	1.62	1.23	< 0.005	0.06	_	0.06	0.06	_	0.06	_	206	206	0.01	< 0.005	207
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipment	0.01	0.30	0.22	< 0.005	0.01	_	0.01	0.01	_	0.01	_	34.2	34.2	< 0.005	< 0.005	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.34	0.27	2.77	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	464	464	0.02	0.02	471
Vendor	0.02	0.77	0.34	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	442	442	0.01	0.06	462
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.24	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	41.4	41.4	< 0.005	< 0.005	42.1
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	38.0	38.0	< 0.005	0.01	39.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.85	6.85	< 0.005	< 0.005	6.97
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.30	6.30	< 0.005	< 0.005	6.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,398	2,398	0.10	0.02	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	_	0.49	0.46	_	0.46	_	1,713	1,713	0.07	0.01	1,719
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	_	0.09	0.08	_	0.08	_	284	284	0.01	< 0.005	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.36	0.19	3.14	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	512	512	0.01	0.02	521
Vendor	0.02	0.70	0.31	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	-	433	433	0.01	0.06	454
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.32	0.23	2.55	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	454	454	0.02	0.02	461
Vendor	0.02	0.74	0.32	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	434	434	0.01	0.06	454
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-
Worker	0.23	0.15	1.85	0.00	0.00	0.32	0.32	0.00	0.08	0.08	-	336	336	0.01	0.02	342
Vendor	0.02	0.52	0.23	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	-	310	310	0.01	0.05	324
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_

Worker	0.04	0.03	0.34	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	55.7	55.7	< 0.005	< 0.005	56.6
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	51.3	51.3	< 0.005	0.01	53.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	-	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	_	0.49	0.46	_	0.46	_	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	_	0.09	0.08	_	0.08	_	283	283	0.01	< 0.005	284

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Worker	0.34	0.17	2.89	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	501	501	0.01	0.02	510
Vendor	0.02	0.67	0.30	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	425	425	0.01	0.06	446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.30	0.21	2.34	0.00	0.00	0.46	0.46	0.00	0.11	0.11	_	445	445	0.02	0.02	452
Vendor	0.02	0.72	0.32	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	426	426	0.01	0.06	445
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.22	0.14	1.70	0.00	0.00	0.32	0.32	0.00	0.08	0.08	_	329	329	0.01	0.02	335
Vendor	0.02	0.50	0.22	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	_	304	304	0.01	0.05	318
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	54.5	54.5	< 0.005	< 0.005	55.4
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	50.3	50.3	< 0.005	0.01	52.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	_	0.69	0.64	_	0.64	_	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	-	_	_	-	_	_	-	_	_
Off-Road Equipment	0.32	9.60	7.28	0.01	0.35	_	0.35	0.33	_	0.33	-	1,220	1,220	0.05	0.01	1,224
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Off-Road Equipment	0.06	1.75	1.33	< 0.005	0.06	_	0.06	0.06	_	0.06	_	202	202	0.01	< 0.005	203
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	_	_	-	_	_	_	_	_	-	_	_
Worker	0.32	0.16	2.67	0.00	0.00	0.46	0.46	0.00	0.11	0.11	-	491	491	0.01	0.02	499
Vendor	0.02	0.65	0.29	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	416	416	0.01	0.06	436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.27	0.19	2.17	0.00	0.00	0.46	0.46	0.00	0.11	0.11	<u> </u>	436	436	0.02	0.02	443
Vendor	0.02	0.70	0.31	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	417	417	0.01	0.06	436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.09	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	230	230	0.01	0.01	234
Vendor	0.01	0.35	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	212	212	0.01	0.03	222
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.20	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	38.0	38.0	< 0.005	< 0.005	38.7
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	35.1	35.1	< 0.005	0.01	36.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

Ontona i	Ollatarito	(ID/ day it	or duriy, to	in yr ior a	illidal) al	IG 01100	(ID/ day 10	i daily, ivi	17 yr 101 a	maaij						
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	_	0.58	0.54	_	0.54	_	1,511	1,511	0.06	0.01	1,516
Paving	0.02	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	_	0.58	0.54	_	0.54	_	1,511	1,511	0.06	0.01	1,516
Paving	0.02	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipment	0.07	1.82	1.45	< 0.005	0.08	_	0.08	0.07	_	0.07	_	207	207	0.01	< 0.005	208
Paving	< 0.005	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.01	0.33	0.27	< 0.005	0.01	_	0.01	0.01	_	0.01	_	34.3	34.3	< 0.005	< 0.005	34.4
Paving	< 0.005	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.03	0.47	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	87.2	87.2	< 0.005	< 0.005	88.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	-	_	_	_	_	-	_	_	_
Worker	0.05	0.03	0.39	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	77.4	77.4	< 0.005	< 0.005	78.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.0	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.82	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

Location	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	_	0.07	0.06	_	0.06	_	134	134	0.01	< 0.005	134
Architectu ral Coatings	41.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipment	< 0.005	0.07	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	8.62	8.62	< 0.005	< 0.005	8.65
Architectu ral Coatings	2.67	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.43	1.43	< 0.005	< 0.005	1.43
Architectu ral Coatings	0.49	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.04	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	87.2	87.2	< 0.005	< 0.005	88.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.83	5.83	< 0.005	< 0.005	5.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	0.98

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2028) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	_	0.07	0.06	_	0.06	_	134	134	0.01	< 0.005	134
Architectu ral Coatings	41.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipment	< 0.005	0.07	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	9.15	9.15	< 0.005	< 0.005	9.18
Architectu ral Coatings	2.83	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.51	1.51	< 0.005	< 0.005	1.52

Architectu Coatings	0.52	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.04	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	85.5	85.5	< 0.005	< 0.005	86.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.07	6.07	< 0.005	< 0.005	6.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.00	1.00	< 0.005	< 0.005	1.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.37	25.7	5.20	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,867	23,867	0.36	3.77	25,042
Other Non-Aspha Surfaces	0.00 llt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.37	25.7	5.20	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,867	23,867	0.36	3.77	25,042
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_
General Heavy Industry	0.35	27.4	5.27	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,876	23,876	0.36	3.78	25,012
Other Non-Aspha Surfaces	0.00 llt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00
Total	0.35	27.4	5.27	0.22	0.47	7.37	7.83	0.45	1.98	2.43	_	23,876	23,876	0.36	3.78	25,012
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.07	4.91	0.95	0.04	0.09	1.33	1.42	0.08	0.36	0.44	_	3,952	3,952	0.06	0.62	4,143
Other Non-Aspha Surfaces	0.00 alt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00

Total	0.07	4.91	0.95	0.04	0.09	1.33	1.42	0.08	0.36	0.44	_	3.952	3,952	0.06	0.62	4.143
	0.0.		0.00	0.0.	0.00		···-	0.00	0.00	0		0,002	0,00=	0.00	0.02	.,

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	718	718	0.12	0.01	725
Other Non-Aspha Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	6.40	6.40	< 0.005	< 0.005	6.46
undefined	_	_	_	_	_	_	_	_	_	_	_	5,246	5,246	0.85	0.10	5,298
Total	_	_	_	_	_	_	_	_	_	_	_	5,970	5,970	0.97	0.12	6,029
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	718	718	0.12	0.01	725
Other Non-Aspha Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	6.40	6.40	< 0.005	< 0.005	6.46
undefined	_	_	_	_	_	_	_	_	_	_	_	5,246	5,246	0.85	0.10	5,298
Total	_	_	_	_	_	_	_	_	_	_	_	5,970	5,970	0.97	0.12	6,029

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	119	119	0.02	< 0.005	120
Other Non-Asphal Surfaces	— lt	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	1.06	1.06	< 0.005	< 0.005	1.07
undefined	_	_	_	_	_	_	_	_	_	_	_	365	365	0.06	0.01	369
Total	_	_	_	_	_	_	_	_	_	_	_	485	485	0.08	0.01	490

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Other Non-Aspha Surfaces	0.00 llt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
General Heavy Industry	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900

Other Non-Aspha Surfaces	0.00 lt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.18	3.26	2.74	0.02	0.25	_	0.25	0.25	_	0.25	_	3,890	3,890	0.34	0.01	3,900
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	644	644	0.06	< 0.005	646
Other Non-Aspha Surfaces	0.00 lt	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.59	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	644	644	0.06	< 0.005	646

4.3. Area Emissions by Source

4.3.1. Unmitigated

		· ,	J ,				` ,	J /								
Source	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Consumer Products	4.62	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architectu ral Coatings	0.57	_	_		_	_	_	_	_	_	_	_	_	_	_	_

Landscap e Equipmen t	1.44	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Total	6.63	0.07	8.74	< 0.005	0.02	_	0.02	0.01	_	0.01	_	36.0	36.0	< 0.005	< 0.005	36.1
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	4.62	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architectu ral Coatings	0.57	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	5.19	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	0.84	_	_	_	_	_	_	_	_	_	-	_	_	_		_
Architectu ral Coatings	0.10	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landscap e Equipmen t	0.13	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95
Total	1.08	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.94	2.94	< 0.005	< 0.005	2.95

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	ROG	NOx	CO	SO2	PM10F	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Lana 000	1100	IIIOX		1002		I WITOD	I WI I O I	I IVIZ.OL	I IVIZ.0D	11 1112.01	10002	110002	10021	0111	11420	10020

Daily, — Summer (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_
General — Heavy Industry	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Other — Non-Asphalt Surfaces	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking — Lot		_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total —	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Daily, — Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General — Heavy Industry	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Other — Non-Asphalt Surfaces		_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking —	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total —	_	_	_	_	_	_	_	_	_	597	686	1,282	61.3	1.47	3,252
Annual —	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General — Heavy Industry	_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538
Other — Non-Asphalt Surfaces	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking — Lot	_	_	_	_	-	_	-	_	-	0.00	0.00	0.00	0.00	0.00	0.00
Total —	_	_	_	_	_	_	_	_	_	98.8	113	212	10.1	0.24	538

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Other Non-Aspha Surfaces	— alt	_	_	_	_	_	_	_	_		0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Other Non-Aspha Surfaces	— alt	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	2,307	0.00	2,307	231	0.00	8,071
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336

Other Non-Aspha Surfaces	— lt	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	_	_	_	_	_	_	_	_	_	_	382	0.00	382	38.2	0.00	1,336

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use		NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	52.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
General Heavy Industry	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.66

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

					annuai) a											
Equipmen	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
туре																
Daily, Summer (Max)	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00

Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00
Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipmen t	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipmen t Type	ROG		со								BCO2	NBCO2	СО2Т	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation			co								BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

		· -	,	_	, , , , , , , , , , , , , , , , , , ,		` ,									
Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

			or daily, to													
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequester ed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	6/3/2024	8/9/2024	5.00	50.0	_
Grading	Grading	8/12/2024	11/15/2024	5.00	70.0	_
Building Construction	Building Construction	11/18/2024	9/17/2027	5.00	740	_
Paving	Paving	9/20/2027	11/26/2027	5.00	50.0	_
Architectural Coating	Architectural Coating	11/29/2027	2/4/2028	5.00	50.0	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40

Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	_	4.00	ннот,мнот
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	20.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	_	4.00	ННОТ,МНОТ
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	84.4	7.70	LDA,LDT1,LDT2

Building Construction	Vendor	33.0	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	_	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_
Architectural Coating	Worker	16.9	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	301,574	100,525	244,372

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	_	_	75.0	0.00	_
Grading	_	_	210	0.00	_
Paving	0.00	0.00	0.00	0.00	93.5

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Heavy Industry	0.00	0%
Other Non-Asphalt Surfaces	93.2	0%
Parking Lot	0.30	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	201	201	201	73,383	8,042	8,042	8,042	2,935,315
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	301,574	100,525	244,372

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	1,285,272	204	0.0330	0.0040	12,136,607
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Parking Lot	11,448	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	311,400,000	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	4,280	_
Other Non-Asphalt Surfaces	0.00	_
Parking Lot	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type Equipment Type Refrigerant GWP Quantity (kg) Operations Leak Rate Service Leak Rate Times Serviced	Land Us	se Туре	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
--	---------	---------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

General Heavy Industry	Other commercial A/C	R-410A	2,088	0.30	4.00	4.00	18.0
	and heat pumps						

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Other Material Handling Equipment	Electric	Average	3.00	18.0	64.0	0.80
Other Material Handling Equipment	Electric	Average	2.00	18.0	6.00	0.80
Other Material Handling Equipment	Electric	Average	10.0	18.0	45.3	0.80
Other General Industrial Equipment	Electric	Average	10.0	18.0	53.0	0.80
Forklifts	Electric	Average	10.0	18.0	82.0	0.20
Skid Steer Loaders	Electric	Average	10.0	18.0	71.0	0.37
Rubber Tired Loaders	Electric	Average	10.0	18.0	150	0.36

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type Fuel Type Number per Day Heure per Day Heure per Veer Hereepower	Load Footor
Equipment Type Fuel Type Number per Day Hours per Day Hours per Year Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Innut (MMRtu/yr)
Equipment Type	i dei Type	Number	Doller Rating (MMDtd/III)	Daily Heat Input (Wilviblu/day)	Annual Fleat Input (MiMbtu/yi)

5.17. User Defined

Equipment Type Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction of the proposed project is expected to occur intermittently in four phases over a period of approximately 44 months starting in 2024. To be conservative, this analysis assumes an overall 44-month schedule.
Construction: Off-Road Equipment	Assuming the use of Tier 2 construction equipment.
Operations: Vehicle Data	The proposed project would include 190 raw material hauling trucks and 12 dry waste hauling trucks
Operations: Fleet Mix	Fleet mix was revised to reflect all hauling trips (100% HHDT)

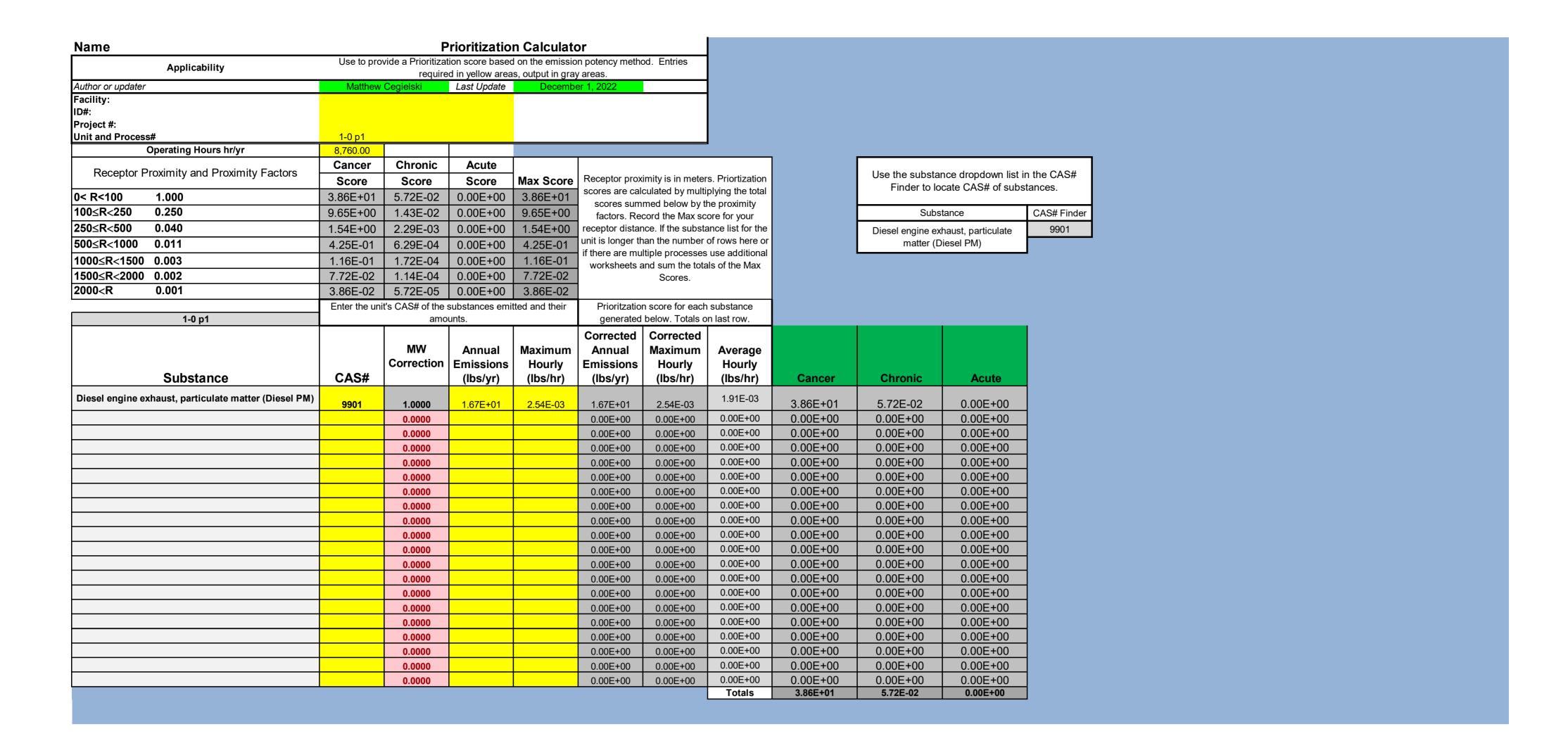
S. Stamoules, Inc. Pistachio Processing Facility - HHDT Custom Report, 10/3/2023

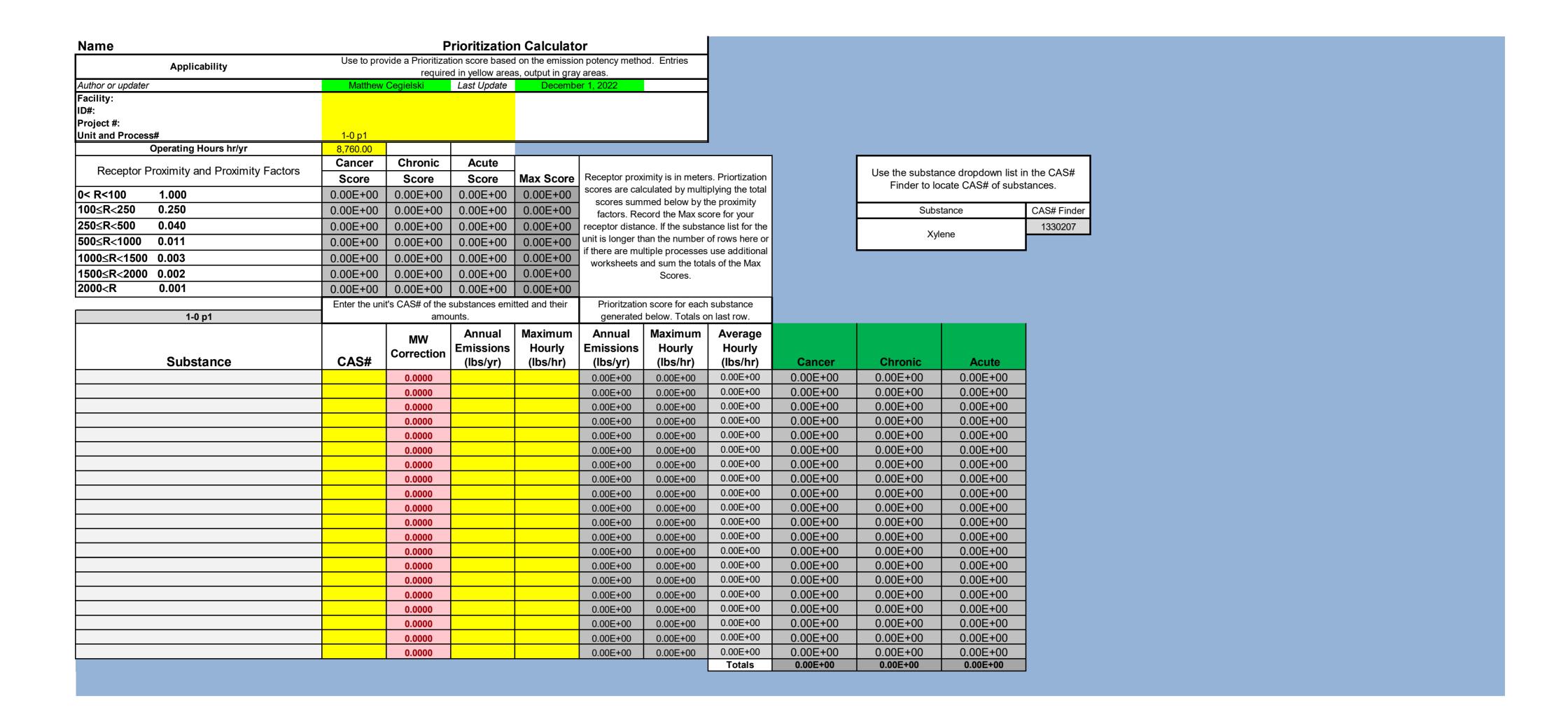
Operations: Energy Use	Daily Electrical and natural gas demand for these phases is based on in Table 3.A of the Project Description (assuming the equipment uses would be not subject to Title 24).
Operations: Off-Road Equipment	The project will include the following equipment: - 3 Forsburgs Gravity Deck, each consisting of a 1 HP motor, a 3 HP motor and a 60 HP motor with a 0.8-load factor. The main power used in the operation of these units is electricity. - 2 LMC Scalpers, each consisting of a 1 HP motor and a 5 HP motor with a 0.8-load factor. The main power used in the operation of these units is electricity. - 10 Magnuson Peeler machines, each consisting of a 0.75 HP motor, a 2 HP motor, a 7.5 HP motor, a 15 HP motor and a 20 HP motor with a 0,8-load factor. The main power used in the operation of these units is electricity. - 10 Sukup Dryers, each consisting of a 1HP motor, a 2 HP motor, a 10 HP motor, and a 4x40 HP motor with a 0.8 load factor. These unit will run off natural gas and electricity (this analysis is assuming electric as CalEEMod doesn't provide default emission factors for CNG). The harvest season is 45 days long and which time the machinery would be running 8 hours a day for a total of 810 hours. Also assuming 10 forklifts, 10 skid steer loaders, and 10 rubber tired loaders.
Land Use	The project site is 98 acres in size. Assuming that all areas not covered by buildings or the parking lot would be paved as no landscaping is proposed for the project site.
Operations: Solid Waste	It is estimated that the project site would produce approximately 8,562,667 pounds of solid waste.
Operations: Water and Waste Water	The proposed project would generate approximately 311.4 million gallons of wastewater annually.

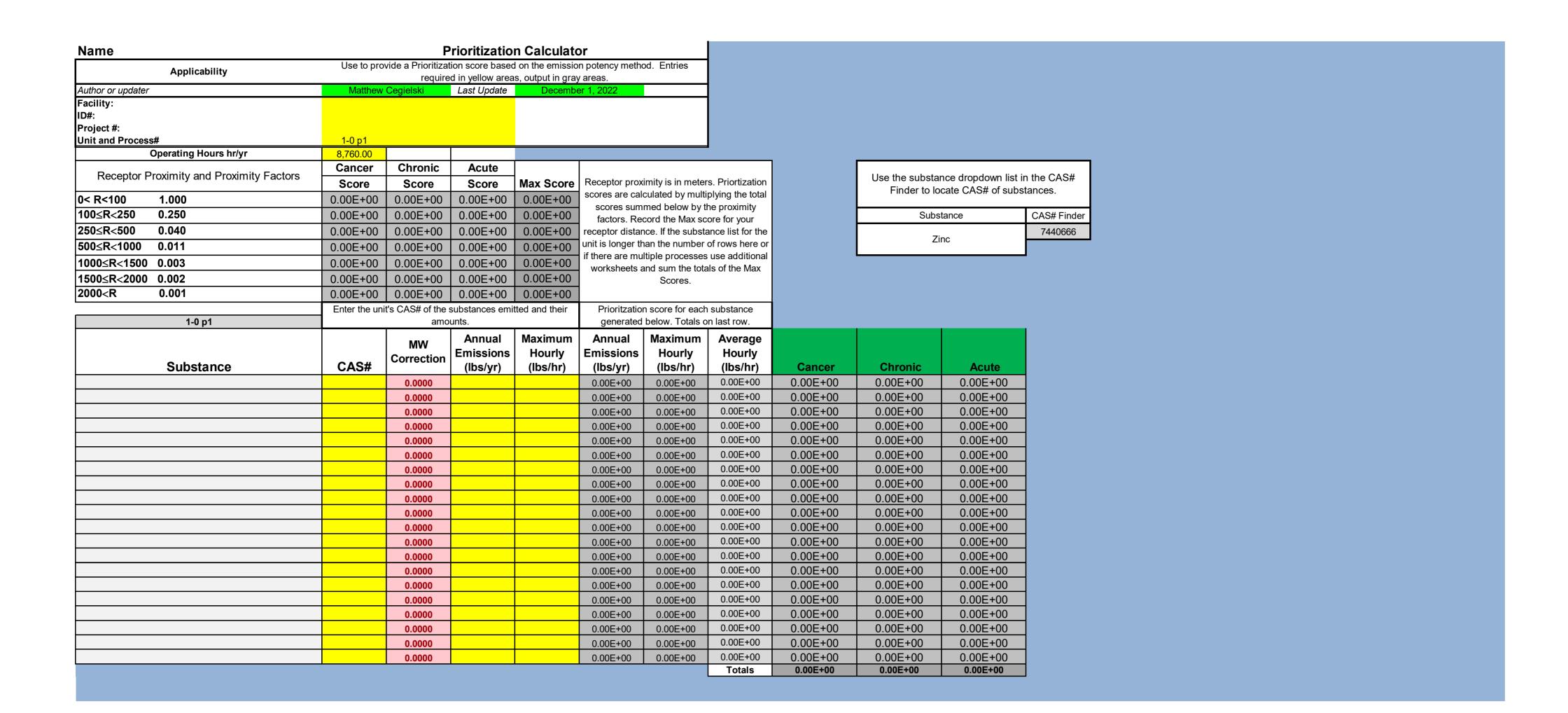
APPENDIX C

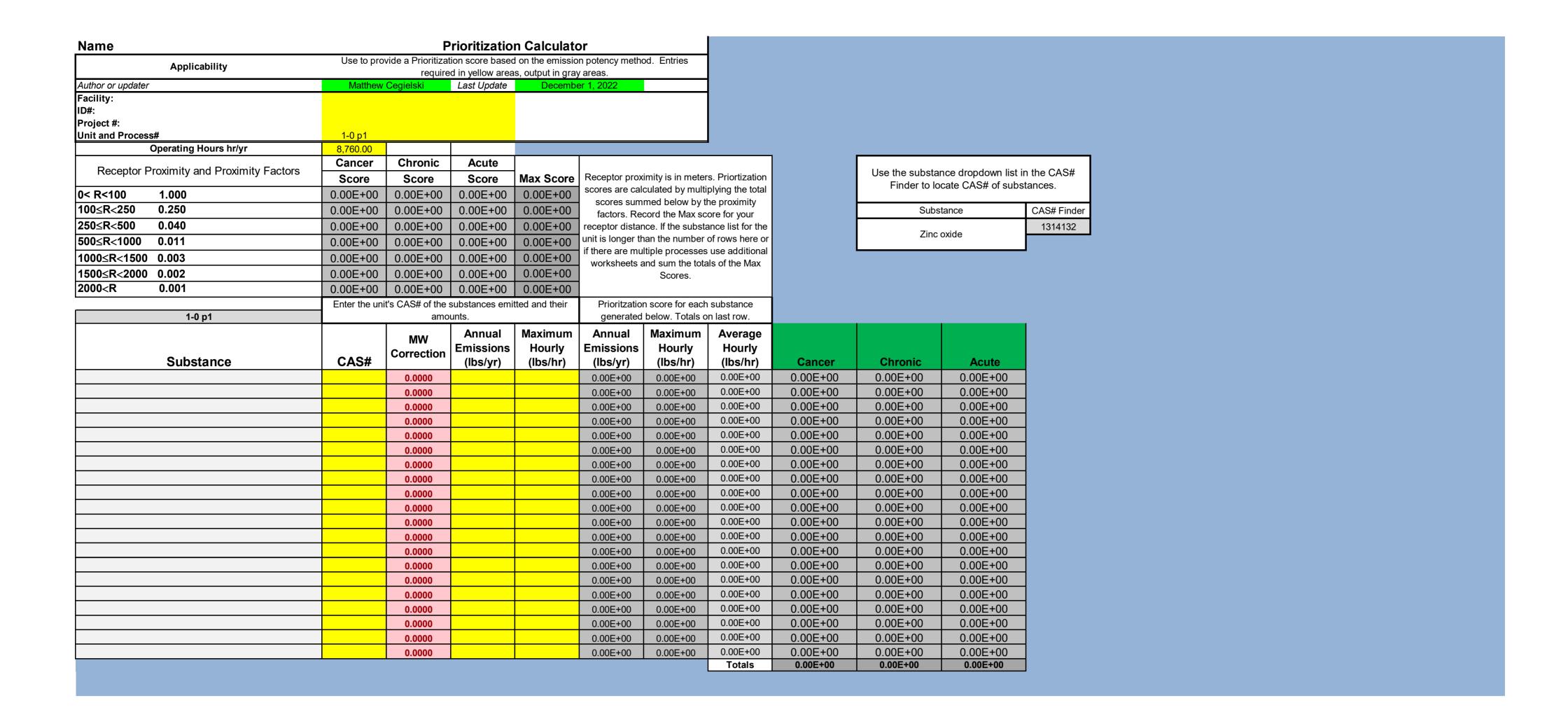
PRIORITIZATION CALCULATOR

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	_				
	1-0 p1	1-0 p1	1-0 p1	1-0 p1	
Receptor Proximity and Prox	imity				Total Max
Factors	Max Score	Max Score	Max Score	Max Score	Score
0< R<100 1.000	3.86E+01	0.00E+00	0.00E+00	0.00E+00	3.86E+01
100≤R<250 0.250	9.65E+00	0.00E+00	0.00E+00	0.00E+00	9.65E+00
250≤R<500 0.040	1.54E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+00
500≤R<1000 0.011	4.25E-01	0.00E+00	0.00E+00	0.00E+00	4.25E-01
1000≤R<1500 0.003	1.16E-01	0.00E+00	0.00E+00	0.00E+00	1.16E-01
1500≤R<2000 0.002	7.72E-02	0.00E+00	0.00E+00	0.00E+00	7.72E-02
2000 <r 0.001<="" th=""><th>3.86E-02</th><th>0.00E+00</th><th>0.00E+00</th><th>0.00E+00</th><th>3.86E-02</th></r>	3.86E-02	0.00E+00	0.00E+00	0.00E+00	3.86E-02

					Molecular Weight	
5	Substance	URF	Acute	Chronic	Correction	
1000 A	Aflatoxins				1.00	Update 22120
	Analgesic mixtures containing phenacetin				1.00	
	Androgenic (anabolic) steroids	0.0022	0.2	0.015	1.00	
	Arsenic compounds (inorganic) Arsenic compounds (other than inorganic)	0.0033	0.2	0.015	1.00 1.00	
	Benzidine-based dyes	0.14			1.00	
	Betel quid with tobacco	0.11			1.00	
	Bitumens, extracts of steam-refined and air-refined bitumens				1.00	
1035 I	Bleomycins				1.00	
	Carbon black extract				1.00	
	Carrageenan (degraded)				1.00	
	Ceramic fibers (man-made) Chlorobenzenes				1.00	
	p-Chloro-o-toluidine				1.00 1.00	
_	Chlorophenols				1.00	
	Chlorophenoxy herbicides				1.00	
	Coke Oven Emissions				1.00	
	Conjugated estrogens				1.00	
	Creosotes				1.00	
	Cyanide compounds		340	9	1.00	
	Dialkylnitrosamines				1.00	
	Diaminotoluenes (mixed isomers)	20		0.00004	1.00	
	Dibenzofurans (chlorinated) {PCDFs} [Treated as 2378TCDD for HRA] Dioxins, total, with individ. isomers also reported {PCDDs}	38		0.00004	1.00 1.00	
	Dioxins, total, with individ. isomers also reported {PCDDs} [Treat as 2378TCDD for HRA	38		0.00004	1.00	
	Environmental Tobacco Smoke	36		0.00004	1.00	
	Epoxy resins				1.00	
	Estrogens, non-steroidal				1.00	
100 I	Estrogens, steroidal				1.00	
	Fluorides and compounds		240	13	1.00	
	Fluorocarbons (brominated)				1.00	
	Fluorocarbons (chlorinated)				1.00	
	Gasoline vapors				1.00	
	Glasswool (man-made fibers)				1.00	
	Glycol ethers (and their acetates) Isocyanates				1.00 1.00	
	Lead compounds (inorganic)	0.000012			1.00	
	Lead compounds (other than inorganic)	0.000012			1.00	
	Lubricant base oils				1.00	
1135 I	Mineral fibers (other than man-made)				1.00	
	Mineral fibers (fine: man-made)				1.00	
	Mineral oils (untreated and mildly treated oils)				1.00	
	Modified Hydrogen fluoride {MHF}	0.00026	240	14	1.0000	
	Nickel refinery dust Nitrilotriacetic acid (salts)	0.00026	0.2	0.014	1.00 1.00	
	PAHs, total, with individ. components also reported				1.00	
	PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	0.0011			1.00	
	Polybrominated biphenyls	0.0011			1.00	
	Progestins				1.00	
1165 I	Radionuclides				1.00	
1166 l	Radon and its decay				1.00	
	Retinol/retinyl este				1.00	
	Rockwool (man-made fibers)				1.00	
	Silica, crystalline			3	1.00	
	Shale oils				1.00	
1181 S 1185 S	Slagwool (man-made fibers)				1.00 1.00	
	Talc containing asbestiform fibers				1.00	
	Tobacco products, smokeless				1.00	
	alpha-chlorinated Toluenes				1.00	
	Wood preservatives (containing arsenic and chromate)				1.00	
1216 (Cobalt compounds, insoluble	0.0077			1.00	
	Cobalt sulfate and other soluble cobalt compounds	0.00086			1.00	
	Polymeric (Oligo) HDI		4.5	0.4	1.00	
	Diisocyanurate		4.5	0.4	1.00	
	HDI Prepolymer		4.5	0.4	1.00	
	Isocyanurate Polybrominated dinhenyl others {PRDEs}		4.5	0.4	1.00	
	Polybrominated diphenyl ethers {PBDEs} Diesel engine exhaust, particulate matter (Diesel PM)	0.0003		5	1.00 1.00	
	Diesel engine exhaust, total organic gas	0.0003		3	1.00	
	Gasoline engine exhaust, particulate matter				1.00	
	Gasoline engine exhaust, total organic gas				1.00	
	Sulfates		120		1.00	
	Sulfuric Acid + Oleum				1.00	
1101 l	Particulate Matter				1.00	
	Reactive Organic Gas				1.00	
	Carbon Monoxide [Criteria Pollutant]				1.00	
	Oxides of sulfur				1.00	
	Oxides of Nitrogen				1.00	
	Total Organic Gases				1.00	

Molecular

44104				4.00
	Volatile Organic Compounds (VOC)	5.5	0	1.00
	Formaldehyde 0.000006	55	9	1.00
	Phenobarbital			1.00
	Mitomycin C			1.00
	Cyclophosphamide			1.00
	Estradiol 17 beta			1.00
	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane}			1.00
	Benzo[a]pyrene 0.0011			1.00
	Thalidomide			1.00
	Clomiphene citrate			1.00
	Reserpine			1.00
50760	Actinomycin D			1.00
50782	Aspirin			1.00
51218	Fluorouracil			1.00
51285	2,4-Dinitrophenol			1.00
51525	Propylthiouracil			1.00
51752	Nitrogen mustard			1.00
51796	Urethane 0.00029			1.00
52244	Tris(1-aziridinyl) phosphine sulfide			1.00
52675	Penicillamine			1.00
52686	Trichlorfon			1.00
53167	Estrone			1.00
53703	Dibenz[a,h]anthracene 0.0012			1.00
	2-Acetylaminofluorene			1.00
	Nicotine			1.00
	Aminopterin			1.00
	Pipobroman			1.00
	N-Nitrosodiethylamine 0.01			1.00
	Benzamide			1.00
	Nitroglycerin			1.00
	Nitrogen mustard hydrochloride			1.00
	1,4-Butanediol dimethanesulfonate			1.00
	Methylthiouracil			1.00
	Carbon tetrachloride 0.000042	1900	40	1.00
	Parathion	1700	10	1.00
	3-Methylcholanthrene 0.0063			1.00
	Diethylstilbestrol			1.00
	Benz[a]anthracene 0.00011			1.00
	Chloramphenicol			1.00
	Cyanide Compounds (Inorganic)	340	9	1.00
	1,1-Dimethylhydrazine	340	,	1.00
	Pentobarbital sodium			
				1.00
	Phenytoin			1.00
	beta-Propiolactone Eddinglood of the land			1.00
	Ethinyl estradiol			1.00
	Chlordane			1.00
	Progesterone			1.00
	7,12-Dimethylbenz[a]anthracene 0.071			1.00
	Methyltestosterone The description of the section o			1.00
	Testosterone and its esters			1.00
	Lindane {gamma-Hexachlorocyclohexane} 0.00031			1.00
	2,3,4,6-Tetrachlorophenol			1.00
				1 00
59870	Methotrexate Nitroformana			1.00
50003	Nitrofurazone			1.00
	Nitrofurazone N-Nitrosomorpholine 0.0019			1.00 1.00
59961	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine			1.00 1.00 1.00
59961 60093	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene			1.00 1.00 1.00 1.00
59961 60093 60117	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013			1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine			1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002			1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002 Methimazole			1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002 Methimazole Dieldrin			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002 Methimazole Dieldrin Niridazole			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825	Nitrofurazone N-Nitrosomorpholine 0.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002 Methimazole Dieldrin Niridazole Amitrole			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442	Nitrofurazone N-Nitrosomorpholine O.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide O.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500	Nitrofurazone N-Nitrosomorpholine O.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide O.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533	Nitrofurazone N-Nitrosomorpholine O.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide O.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline 0.0000016			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555	Nitrofurazone0.0019N-Nitrosomorpholine0.0019Phenoxybenzaminep-Aminoazobenzene4-Dimethylaminoazobenzene0.0013Methyl hydrazineAcetamide0.00002MethimazoleDieldrinNiridazoleAmitrolePhenacetinEthyl methanesulfonateAniline0.0000016Thioacetamide0.0017			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566	Nitrofurazone N-Nitrosomorpholine N-Nitrosomorpholine O.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide O.00002 Methimazole Dieldrin Niridazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline O.0000016 Thioacetamide O.0000017			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737	Nitrofurazone N-Nitrosomorpholine O.0019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 4-Dimethylaminoazobenzene Methyl hydrazine Acetamide O.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline O.0000016 Thioacetamide O.0000016 Thiourea Dichlorovos {DDVP}			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759	Nitrofurazone 0.0019 Phenoxybenzamine 0.0013 p-Aminoazobenzene 0.0013 Methyl hydrazine 0.00002 Methimazole 0.00002 Methimazole 0.00002 Miridazole Niridazole Amitrole Phenacetin Ethyl methanesulfonate 0.0000016 Thioacetamide 0.0017 Thiourea 0ichlorovos {DDVP} N-Nitrosodimethylamine 0.0046			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252	Nitrofurazone 0.0019 Phenoxybenzamine			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923	Nitrofurazone N-Nitrosomorpholine Ono019 Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine Acetamide 0.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline On000016 Thioacetamide 0.0000016 Thioacetamide 0.000017 Thiourea Dichlorovos {DDVP} N-Nitrosodimethylamine Carbaryl Phenoxybenzimide hydrochloride			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989	Nitrofurazone 0.0019 Phenoxybenzamine			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63989 64675	Nitrofurazone 0.0019 Phenoxybenzamine 0.0019 p-Aminoazobenzene 0.0013 4-Dimethylaminoazobenzene 0.0013 Methyl hydrazine 0.00002 Acetamide 0.00002 Methimazole			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63989 64675 64755	Nitrofurazone N-Nitrosomorpholine N-Nitrosomorpholine Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 4-Dimethylaminoazobenzene 4-Dimethylaminoazobenzene 3 0.0013 Methyl hydrazine Acetamide Nitrofurazole Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline Aniline Aniline O.0000016 Thioacetamide Thiourea Dichlorovos {DDVP} N-Nitrosodimethylamine Carbaryl Phenoxybenzimide hydrochloride Phenacemide Fhenacemide O.0046 Carbaryl Phenoxybenzimide hydrochloride Phenacemide Diethyl sulfate Tetracycline hydrochoride			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989 64675 64755 66273	Nitrofurazone N-Nitrosomorpholine N-Nitrosomorpholine Phenoxybenzamine p-Aminoazobenzene 4-Dimethylaminoazobenzene 4-Dimethylaminoazobenzene 0.00013 Methyl hydrazine Acetamide 0.00002 Methimazole Dieldrin Niridazole Amitrole Phenacetin Ethyl methanesulfonate Aniline 0.000016 Thioacetamide 0.000016 Thioacetamide 0.00017 Thiourea Dichlorovos {DDVP} N-Nitrosodimethylamine Carbaryl Phenoxybenzimide hydrochloride Phenacemide Diethyl sulfate Tetracycline hydrochoride Methyl sulfate Tetracycline hydrochoride Methyl methanesulfonate			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 64675 64755 66273	Nitrofurazone 0.0019 Phenoxybenzamine 0.0019 p-Aminoazobenzene			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989 64675 64755 66273 66751 66819	Nitrofurazone 0.0019 Phenoxybenzamine			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989 64675 64755 66273 66751 66819 67209	Nitrofurazone 0.0019 Phenoxybenzamine 0.0013 p-Aminoazobenzene 0.0013 4-Dimethylaminoazobenzene 0.00013 Mettyl hydrazine 0.00002 Acetamide 0.00002 Methimazole			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63989 64675 64755 66273 66751 66819 67209 67458	Nirofurazone 0.0019 Phenoxybenzamine 0.0019 p-Aminoazobenzene 0.0013 4-Dimethylaminoazobenzene 0.0003 Methyl hydrazine 0.00002 Acetamide 0.00002 Methimazole 1 Dieldrin 1 Niridazole 2 Amitrole 0.000016 Phenacetin 0.000016 Ethyl methanesulfonate 0.0017 Thioacetamide 0.0017 Thioacetamide 0.0017 Thiourea 0.0016 Dichlorovos {DDVP} 0.0046 Carbaryl 0.0046 Phenoxybenzimide hydrochloride 0.0046 Phenoxybenzimide hydrochloride 0.0046 Hetargeline hydrochloride 0.0046 Uracil mustard 0.0046 Cycloheximide 0.0046 Nitrofurantoin 0.0046			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989 64675 64755 66273 66751 66819 67209 67458 67561	Nitrofurazone 0.0019 Phenoxybenzamine	28000	4000	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
59961 60093 60117 60344 60355 60560 60571 61574 61825 62442 62500 62533 62555 62566 62737 62759 63252 63923 63989 64675 64755 66273 66751 66819 67209 67458 67561	Nirofurazone 0.0019 Phenoxybenzamine 0.0019 p-Aminoazobenzene 0.0013 4-Dimethylaminoazobenzene 0.0003 Methyl hydrazine 0.00002 Acetamide 0.00002 Methimazole 1 Dieldrin 1 Niridazole 2 Amitrole 0.000016 Phenacetin 0.000016 Ethyl methanesulfonate 0.0017 Thioacetamide 0.0017 Thioacetamide 0.0017 Thiourea 0.0016 Dichlorovos {DDVP} 0.0046 Carbaryl 0.0046 Phenoxybenzimide hydrochloride 0.0046 Phenoxybenzimide hydrochloride 0.0046 Hetargeline hydrochloride 0.0046 Uracil mustard 0.0046 Cycloheximide 0.0046 Nitrofurantoin 0.0046	28000 3200	4000 7000	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

	Chloroform	0.0000053	150	300	1.00	
	Hexachloroethane				1.00	
	Dimethyl formamide			80	1.00	
	Norethisterone				1.00	
	Γris(aziridinyl)-p-benzoquinone				1.00	
	N-Methyl-N'-nitro-N-nitrosoguanidine				1.00	
	n-Butyl alcohol	0.000000	27	2	1.00	
	Benzene	0.000029	27	3	1.00	
	Cobalt acetate (tetrahydrate)*	0.00086	69000	1000	0.3331	
	Methyl chloroform {1,1,1-Trichloroethane}		68000	1000	1.00	
	Medroxyprogesterone Mestranol				1.00 1.00	
	Methoxychlor				1.00	
	Dichlorodiphenyldichloroethane {DDD}				1.00	
	Dichlorodiphenyldichloroethylene {DDE}				1.00	
	Frypan blue				1.00	
	Methane				1.00	
	Methyl bromide {Bromomethane}		3900	5	1.00	
	Ethylene				1.00	
74873	Methyl chloride {Chloromethane}				1.00	
74884]	Methyl iodide {Iodomethane}				1.00	
74908	Hydrogen Cyanide		340	9	1.00	
74953	Methylene bromide				1.00	
	Ethyl chloride {Chloroethane)			30000	1.00	
	Vinyl chloride	0.000078	180000		1.00	
	Vinyl fluoride				1.00	
	Acetonitrile	0.00000=	450	1.00	1.00	
	Acetaldehyde	0.0000027	470	140	1.00	
	Methylene chloride {Dichloromethane}	0.000001	14000	400	1.00	
	Carbon disulfide Ethylene oxide	0.000088	6200	800 30	1.00 1.00	
	Ethylene oxide Bromoform	0.000088		30	1.00	
	Bromodichloromethane				1.00	
	1,1-Dichloroethane	0.0000016			1.00	
	Vinylidene chloride	0.0000010		70	1.00	
	1,1-Difluoroethane {Freon 152a}			, 0	1.00	
	Dichlorofluoromethane {Freon 21}				1.00	
	Phosgene		4		1.00	
75456	Chlorodifluoromethane {Freon 22}				1.00	
75467 ⁷	Γrifluoromethane {Freon 23}				1.00	
75558	2-Methylaziridine				1.00	
	Propylene oxide	0.0000037	3100	30	1.00	
	tert-Butyl alcohol				1.00	
	Frichlorofluoromethane {Freon 11}				1.00	
	Dichlorodifluoromethene (Freon 12)	0	0	0	1.00	
	Carbon tetrafluoride				1.00	
	2-Methyllactonitrile		20	0.4	1.00	
	Chloropicrin		29	0.4	1.00	
	Chlorinated Fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane} Fluoxymesterone				1.00 1.00	
	Heptachlor				1.00	
	Hexachlorocyclopentadiene				1.00	
	Dimethyl sulfate				1.00	
	Friorthocresyl phosphate				1.00	
	Friethyl phosphine				1.00	
	Sophorone			2000	1.00	
	Isoprene, except from vegetative emission sources				1.00	
78842	sobutyraldehyde				1.00	
	1,2-Dichloropropane				1.00	
	2,3-Dichloropropene				1.00	
	sec-Butyl alcohol				1.00	
	Methyl ethyl ketone	0.000016	13000		1.00	
	1,1,2-Trichloroethane	0.000016		600	1.00	
	Frichloroethylene	0.000002		600	1.00	
	Acrylamide	0.0013	6000		1.00 1.00	
	Acrylic acid Chloroacetic acid		0000		1.00	
	Peracetic acid				1.00	
	1,1,2,2-Tetrachloroethane	0.000058			1.00	
	Dimethyl carbamoyl chloride	0.000020			1.00	
	2-Nitropropane				1.00	
	Oxytetracycline				1.00	
	1,4'-Isopropylidenediphenol				1.00	
	Cumene hydroperoxide				1.00	
	Methyl methacrylate				1.00	
	Saccharin				1.00	
	Warfarin				1.00	
	D and C Red No. 19				1.00	
	1-Amino-2-methylanthraquinone				1.00	
	Pentachloronitrobenzene {Quintobenzene}				1.00	
	Acenaphthene				1.00	
	Dienestrol Diothyl phtholoto				1.00	
0400Z	Diethyl phthalate				1.00	

	Dibutyl phthalate			1
	Phenanthrene			1
	Particulate Matter 1 Phthalic anhydride			20 1
	Butyl benzyl phthalate			20 1
	N-Nitrosodiphenylamine 0.0000	026		1
	Fluorene	020		1
	Cinnamyl anthranilate			1
87627	2,6-Xylidene			1
87683	Hexachlorobutadiene			1
87865	Pentachlorophenol 0.0000	051		1
	2,4,6-Trichlorophenol 0.00	002		1
	Particulate Matter 2.5 Microns or less			1
	2-Nitrophenol			1
	Dinoseb Biorio agid			1
	Picric acid O-Anisidine			1 1
	2-Phenylphenol			1
	Michler's ketone 0.00	025		1
	Toluene-2,6-diisocyanate 0.000		2 (0.008 1
	Naphthalene 0.000			9 1
	Quinoline			1
91576	2-Methyl naphthalene			1
91598	2-Naphthylamine			1
91941	3,3'-Dichlorobenzidine 0.00	034		1
	Biphenyl			1
	4-Aminobiphenyl			1
		.14		1
	4-Nitrobiphenyl			1
	Benzoyl peroxide Dibydescafrolo			1
	Dihydrosafrole Safrole			1 1
	Dichlorophenoxyacetic acid, salts and esters {2,4-D}			1
	Phenazopyridine hydrochloride			1
	Sulfallate			1
	o-Xylene	220	000	700 1
	o-Cresol			600 1
	1,2-Dichlorobenzene			1
95534	o-Toluidine			1
95578	2-Chlorophenol			1
95636	1,2,4-Trimethylbenze			1
	p-Chloro-o-toluidine 0.000			1
	2,4-Diaminotoluene 0.0			1
	4-Chloro-o-phenylenediamine 0.0000	046		1
	2,4,5-Trichlorophenol			1
	Styrene oxide	002		1
	1,2-Dibromo-3-chloropropane 0. 2,3-Dibromo-1-propanol	002		1 1
	1,2,3-Trichloropropane			1
	Methyl acrylate			1
	Ethylene thiourea 0.000	013		1
	o-Aminoazotoluene			1
98077	Benzoic trichloride			1
98566	1-Chloro-4-(trifluoromethyl)benzene [PCBTF] 0.0000	086		1
98828	Cumene			1
	Acetophenone			1
	Benzal chloride			1
	Benzoyl chloride			1
	Nitrobenzene			1
	5-Nitro-o-anisidine			1
	m-Dinitrobenzene			1
	Valproate 4 Ni washawal			1
	4-Nitrophenol			1
	Terephthalic acid			1
	p-Dinitrobenzene 4 Vinylayalahayana			1
	4-Vinylcyclohexene Ethyl benzene 0.0000	025		2000 1
	Styrene 0.0000	025 210		2000 1 900 1
	Benzyl chloride 0.000		240	900 1
	N-Nitrosopiperidine 0.0		- • •	1
	Triphenyl phosphite	•		1
101040	4,4'-Methylene bis(2 Chloroaniline) (MOCA) 0.00	043		1
	4,4'-Methylene bis (N,N-dimethyl) benzenamine			1
101144	4,4 - Methylene bis (14,14-dimethyl) benzenamme		12	0.08
101144 101611	Methylene diphenyl diisocyanate {MDI}			
101144 101611 101688		046		20 1
101144 101611 101688 101779 101804	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 4,4'-Diaminodiphenyl ether 0.00	046		20 I
101144 101611 101688 101779 101804 101906	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE}	046		
101144 101611 101688 101779 101804 101906 103231	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 0.00 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE} Bis(2-ethylhexyl) adipate	046		1 1 1
101144 101611 101688 101779 101804 101906 103231	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 0.00 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE} Bis(2-ethylhexyl) adipate Azobenzene	046		1 1 1 1
101144 101611 101688 101779 101804 101906 103231 103333	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE} Bis(2-ethylhexyl) adipate Azobenzene p-Anisidine	046		1 1 1 1
101144 101611 101688 101779 101804 101906 103231 103333 104949	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 0.00 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE} Bis(2-ethylhexyl) adipate Azobenzene p-Anisidine Caprolactam	046	50	1 1 1 1 2.2
01144 01611 01688 01779 01804 01906 03231 03333 04949	Methylene diphenyl diisocyanate {MDI} 4,4'-Methylenedianiline 4,4'-Diaminodiphenyl ether Diglycidyl resorcinol ether {DGRE} Bis(2-ethylhexyl) adipate Azobenzene p-Anisidine	220	50	1 1 1 1

	p-Cresol	000011		600 1.00	
	p-Dichlorobenzene (p-Chloroaniline	0.000011		800 1.00	
	p-Toluidine			1.00 1.00	
	p-Phenylenediamine			1.00	
	Quinone			1.00	
106876	4-Vinyl-1-cyclohexene diepoxide			1.00	0
	1,2-Epoxybutane			20 1.00	
	ı v	0.000023	1300	3 1.00	
		0.000071	((0	0.8 1.00	
	1,3-Butadiene Acrolein	0.00017	660 2.5	2 1.00 0.35 1.00	
		0.000006	2.3	1.00	
	·	0.000021		400 1.0 0	
	Acrylonitrile	0.00029		5 1.00	0
	Allyl alcohol			1.00	0
	Ethylene glycol			400 1.0 0	
	Chloromethyl methyl ether (technical grade)			1.00	
	Propylene glycol monomethyl ether Vinyl acetate			7000 1.0 0 2 00 1.0 0	
	Methyl isobutyl ketone {Hexone}			200 1.00 1.00	
108190			4.5	0.4 1.0 (
108316	Maleic anhydride			0.7 1.0 0	
	m-Xylene		22000	700 1.0 0	0
	m-Cresol			600 1.0 0	
	Bis(2-chloro-1-methylethyl) ether			1.00	
	Propylene glycol monomethyl ether acetate Toluene		5000	1.00 420 1.00	
	Chlorobenzene		3000	1000 1.00	
	Cyclohexanol			1.00	
108952	·		5800	200 1.00	0
	2-Methylpyridine			1.00	
	Ethylene glycol monomethyl ether		93	60 1.0 0	
110009				1.00	
	Ethylene glycol monomethyl ether acetate Hexane			90 1.00 7000 1.00	
	Ethylene glycol dimethyl ether			1.00	
	Ethylene glycol monoethyl ether		370	70 1.0 0	
110827	Cyclohexane			1.00	0
	Pyridine			1.00	
	Ethylene glycol monoethyl ether acetate		140	300 1.00	
	Glutaraldehyde Diethanolamine			0.08 1.0 0 3 1.0 0	
	Bis(2-chloroethyl) ether {DCEE}	0.00071		3 1.00 1.00	
	Diethylene glycol	0.00071		1.00	
	Ethylene glycol monobutyl ether		4700	82 1.00	
	Diethylene glycol monomethyl ether			1.00	0
	Diethylene glycol monoethyl ether			1.00	
	Diethylene glycol dimethyl ether			1.00	
	Diethylene glycol monobutyl ether Triethylene glycol dimethyl ether			1.00 1.00	
	Propoxur			1.00	
	Azaserine			1.00	
115071	Propylene			3000 1.00	0
	Chlorendic acid			1.00	
	Dicofol Part of the Property o			1.00	
	Paramethadione Triphenyl phosphate			1.00 1.00	
		0000094		1.00	
	<u>-</u>	0000024		1.00	
117840	n-Dioctyl phthalate			1.00	0
_	Hexachlorobenzene	0.00051		1.00	
	3,3'-Dimethoxybenzidine			1.00	
	3,3'-Dimethylbenzidine {o-Tolidine} Anthracene			1.00 1.00	
	Isosafrole			1.00	
		0.000043		1.00	
	Catechol			1.00	
120821	1,2,4-Trichlorobenzene			1.00	0
	2,4-Dichlorophenol			1.00	
		0.000089	2000	1.00	
	Triethylamine N,N-Dimethylaniline		2800	200 1.0 0 1.0 0	
	Phenyl glycidyl ether			1.00	
	1,2-Diphenylhydrazine {Hydrazobenzene}			1.00	
	Hydroquinone			1.00	
123386	Propionaldehyde			1.00	
	Butyraldehyde	0000	• • • •	1.00	
	,	0000077	3000	3000 1.00	
	Dimethylamine Chlorodibromomethane	0	0	0 1.00 1.00	
	Aminoglutethimide			1.00	
	Griseofulvin			1.00	

	Tris(2,3-dibromopropyl)phosphate				1.00	
	Tributyl phosphate Chloroprene				1.00 1.00	
	Perchloroethylene {Tetrachloroethene}	0.0000061	20000	35	1.00	
	Trimethadione	0.000001	20000	33	1.00	
	Sodium saccharin				1.00	
	Pyrene				1.00	
	2-Methyl-1-nitroanthraquinone (uncertain purity)				1.00	
131113	Dimethyl phthalate				1.00	
	Sodium o-phenylphenate				1.00	
	Dibenzofuran				1.00	
	Captan				1.00	
133073	<u>=</u>				1.00	
	Chloramben				1.00	
	o-Anisidine hydrochloride 1-Naphthylamine				1.00 1.00	
	Cupferron	0.000063			0.17	
	Cobalt octoate	0.00086			0.1708	
	Nitrilotriacetic acid	0.0000			1.00	
139651	4,4'-Thiodianiline				1.00	
139913	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone				1.00	
140578	Aramite				1.00	
	Ethyl acrylate				0.49	
	Cadmium succinate	0.0042		0.02	0.4921	
	Butyl acrylate	1.600.06			1.00	
	Aniline hydrochloride	1.60E-06	240	0	1.00	
	Sodium cyanide Chlordecone {Kepone}		340	9	1.00 1.00	
	Vinblastine sulfate				1.00	
	Cytarabine				1.00	
	Melphalan				1.00	
	Potassium cyanide		340	9	1.00	
	Ethyleneimine {Aziridine}				1.00	
	Thioguanine				1.00	
154938	Bischloroethyl nitrosourea				1.00	
	p-Nitrosodiphenylamine	0.0000063			1.00	
	Calcium cyanamide				1.00	
	Dibenzo[a,i]pyrene	0.011			1.00	
	Dibenzo[a,h]pyrene	0.011			1.00	
	Benzo[g,h,i]perylene	0.011			1.00	
	Dibenzo[a,l]pyrene	0.011 0.0011			1.00 1.00	
	Dibenzo[a,e]pyrene Benzo[e]pyrene	0.0011			1.00	
	Indeno[1,2,3-cd]pyrene	0.00011			1.00	
	7H-Dibenzo[c,g]carbazole	0.0011			1.00	
	Perylene	0.0011			1.00	
	Benzo[j]fluoranthene	0.00011			1.00	
	Benzo[b]fluoranthene	0.00011			1.00	
206440	Fluoranthene				1.00	
	Benzo[k]fluoranthene	0.00011			1.00	
	Acenaphthylene				1.00	
	Chrysene	0.000011			1.00	
	Dibenz[a,j]acridine	0.00011			1.00	
	Dibenz[a,h]acridine Benzofuran	0.00011			1.00 1.00	
	Treosulfan				1.00	
	Lead acetate	0.000012			0.6370	
	Hydrazine	0.0049		0.2	1.00	
	Nitrogen mustard N-oxide				1.00	
	all-trans-Retinoic acid				1.00	
303344	Lasiocarpine				1.00	
	Ochratoxin A				1.00	
	Chlorambucil				1.00	
309002					1.00	
	Monocrotaline				1.00	
	Testosterone enanthate	0.0011			1.00	
	alpha-Hexachlorocyclohexane beta-Hexachlorocyclohexane	0.0011			1.00 1.00	
	Diazomethane	0.0011			1.00	
	Procarbazine hydrochloride				1.00	
	Nickel acetate	0.00026	0.2	0.014	0.3321	
	Ergotamine tartrate		- · -	·	1.00	
	Oxymetholone				1.00	
	Metronidazole				1.00	
	Azathioprine				1.00	
	Carbonyl sulfide		660	10	1.00	
	Chenodiol				1.00	
	5-Methoxypsoralen				1.00	
	Auramine N. N. Pis (2. phloroothyd), 2. paphthydamine (Chloroophagine)				1.00	
	N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine} Mustard gas				1.00 1.00	
	Tetranitromethane				1.00 1.00	
	Chlorobenzilate				1.00	
					-	

	Trimethyl phosphate			1.00
	Dimethylvinylchloride {DMVC}			0.50
	Cobalt carbonate 0.0077			0.4955
528290	o-Dinitrobenzene			1.00
531760	Merphalan			1.00
531828	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide			1.00
532274	2-Chloroacetophenone			1.00
534521	4,6-Dinitro-o-cresol			1.00
540590	1,2-Dichloroethylene			1.00
540738	1,2-Dimethylhydrazine			1.00
540841	2,2,4-Trimethylpentane			1.00
	t-Butyl acetate 1.30E-06			1.00
	Ethyl chloroformate			1.00
	1,3-Dichlorobenzene			1.00
	1,3-Dichloropropene			1.00
	Bis(chloromethyl) ether 0.013			1.00
				1.00
	Acetohydroxamic acid			
	Lithium carbonate			1.00
	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone			1.00
	Glycidol			1.00
	3-Chloro-2-methylpropene			1.00
	Doxycycline			1.00
	C. I. Basic Red 9 monohydrochloride			1.00
	C. I. Basic Green 4			1.00
584849	Toluene-2,4-diisocyanate 0.000011	2	0.008	1.00
590965	Methylazoxymethanol			1.00
592018	Calcium cyanide	340	9	1.00
	Methylazoxymethanol acetate			1.00
	Vinyl bromide			1.00
	Methyl mercury			1.00
	Megestrol acetate			1.00
	5-Nitroacenaphthene 0.000037			1.00
	2,6-Dinitrotoluene			1.00
	2-Nitrofluorene 0.000011			1.00
				1.00
	• • • • • • • • • • • • • • • • • • • •			
	3,3'-Dimethylbenzidine dihydrochloride 0.14			1.00
	N,N'-Diacetylbenzidine			1.00
	2,4-Diaminoanisole 0.0000066			1.00
	N-Nitroso-N-methylurethane			1.00
	N-Nitrosodi-n-propylamine 0.002			1.00
	Methyl isocyanate		1	1.00
	Ethylene glycol diethyl ether			1.00
630080	Carbon monoxide	23000		1.00
050000				1.00
	Diphenylhydantoin	20000		1.00
630933	Diphenylhydantoin o-Toluidine hydrochloride	25000		
630933 636215		25000		1.00
630933 636215 680319	o-Toluidine hydrochloride	2000		1.00 1.00
630933 636215 680319 684935	o-Toluidine hydrochloride Hexamethylphosphoramide	2000		1.00 1.00 1.00
630933 636215 680319 684935 712685	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2000		1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea	2000		1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene	2000		1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde	2000		1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S	2000		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a}	2000		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077	0.3	0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline)		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.00077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.00077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide tert-Butyl chromate(VI) 0.15		0.03	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0,0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0,0031 N-Methyloacrylamide N-Nitrosodyrolidine 0,0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0,00069 Decabromodiphenyl oxide			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide tert-Butyl chromate(VI) 0.15	0.3	0.2	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide tert-Butyl chromate(VI) 0.15 Nickelocene 0.00026	0.3	0.2 0.014	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-methylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0007 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide tert-Butyl chromate(VI) 0.15 Nickelocene 0.00026 Gallium arsenide	0.3 0.2 0.2	0.2 0.014 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-nethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0007 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide tert-Butyl chromate(V1) 0.15 Nickelocene 0.00033 Arsenic pentoxide 0.0033 Beryllium oxide 0.0033 Beryllium oxide 0.0033	0.3 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 1,4-Dichloro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0007 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide N-Nitrosodi-n-butylamide N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone Decabromodiphenyl oxide tetr-Butyl chromate(VI) 0.15 Nickelocene 0.00026 Gallium arsenide 0.0033 Arsenic pentoxide 0.0034 Eryllium oxide 0.00045 Cobalt [II] oxide 0.0004	0.3 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde 3-Amino-5-(5-nitro-2-furene) Panfuran S	0.3 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde 8-Panfuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} 0.0077 Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4'-Methylene bis(2-methylaniline) Lorazepam	0.3 0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde 3-Amino-5-(5-nitro-2-butene Glycidaldehyde 4-Ferral fuoroethane {HFC-134a} Cobat oxalate 0.007 Hexamethylene-1,6-diisocyanate 4.4-Methylene bis(2-methylaniline) Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide 0.0006 N-Nitrosody-rolidine 0.0006 Tetrachlorvinphos C. I. Basic Red 1 Leptachlor epoxide 0.0006 N-Nitrosodiethanolamine 1,3-Propane sultone 1,3-Propane sultone 0.0009 Decabromodiphenyl oxide 0.0002 fert-Butyl chromate(VI) 0.15 Nickelocene 0.0003 Gallium arsenide 0.003 Arsenic pentoxide 0.003 Beryllium oxide 0.007 Cobalt [III] oxide 0.007 Arsenic pentoxide 0.007 Oxbolt [III] oxide <td>0.3 0.2 0.2</td> <td>0.2 0.014 0.015 0.015</td> <td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>	0.3 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde 3-Amino-5-(5-nitro-2-butene Glycidaldehyde 4-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.007 Hexamethylene-1,6-diisocyanate 4.4-Methylene bis(2-methylaniline) Lorazepam Lorazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide 0.0006 N-Nitrosopyrrolidine 0.0006 Tetrachlorvinphos C.I. Basic Red 1 Leptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.0006 Decabromodiphenyl oxide etert-Butyl chromate(VI) 0.15 Nickelocene 0.00026 Gallium arsenide 0.0033 Arsenic pentoxide 0.0033 Beryllium oxide 0.007 Cobalt [III] oxide 0.007 Antimony trioxide 0.007 Sodium hydroxide 0.0007	0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015 0.007	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732 1313275 1313991	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde 3-Brafuran S 1,1,1,2-Tetrafluoroethane {HFC-134a} 0.007 Cobalt oxalate 0.007 Hexamethylene-1,6-diisocyanate 4.4'-Methylene bis(2-methylaniline) Lorazepam	0.3 0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732 1313275 1313991 1314132	O-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butnea Glycidaldehyde Panfuran S 1,1,12-Tetrafluoroethane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N-Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide 0.0006 Tetrachlorvinphos 0.0006 T	0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015 0.007	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732 1313275 1313991 1314132 1314201	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Glycidaldehyde Panfuran S 1,1,12-Tetrafluorochtane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4"-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N.Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide 0.0006 Petrachlorvinphos 0.0006 C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide 0.00069 tetr-Butyl chromate(VI) 0.15 Nickelocene 0.00026 Gallium arsenide 0.0033 Arsenic pentoxide 0.0033 Beryllium oxide 0.0077 Cobalt [II] oxide 0.0077 Antimony trioxide 0.0077 Antimony trioxide 0.0006 Sodium hydroxide 0.00026	0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015 0.007	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732 1313275 1313991 1314132 1314201 1314563	O-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butnea Glycidaldehyde Panfuran S	0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015 0.007	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
630933 636215 680319 684935 712685 759739 764410 765344 794934 811972 814891 822060 838880 846491 846504 919164 924163 924425 930552 961115 989388 1024573 1116547 1120714 1163195 1189851 1271289 1303000 1303282 1304569 1307966 1308061 1309644 1310732 1313275 1313991 1314132 1314201 1314563	o-Toluidine hydrochloride Hexamethylphosphoramide N-Nitroso-N-methylurea 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole N-Nitroso-N-ethylurea 1,4-Dichloro-2-butene Glycidaldehyde Glycidaldehyde Panfuran S 1,1,12-Tetrafluorochtane {HFC-134a} Cobalt oxalate 0.0077 Hexamethylene-1,6-diisocyanate 4,4"-Methylene bis(2-methylaniline) Lorazepam Temazepam Lithium citrate N.Nitrosodi-n-butylamine 0.0031 N-Methyloacrylamide 0.0006 Petrachlorvinphos 0.0006 C. I. Basic Red 1 Heptachlor epoxide N-Nitrosodiethanolamine 1,3-Propane sultone 0.00069 Decabromodiphenyl oxide 0.00069 tetr-Butyl chromate(VI) 0.15 Nickelocene 0.00026 Gallium arsenide 0.0033 Arsenic pentoxide 0.0033 Beryllium oxide 0.0077 Cobalt [II] oxide 0.0077 Antimony trioxide 0.0077 Antimony trioxide 0.0006 Sodium hydroxide 0.00026	0.2 0.2 0.2 0.2	0.2 0.014 0.015 0.015 0.007	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

1317426 Cobalt sulfide 1319773 Cresols (mixtures of) {Cresylic acid}	0.0077		600	0.6481 1.00
1326416 2,4-Dinitrotoluene, sulfurized 1327533 Arsenic trioxide	0.000089 0.0033	0.2	0.015	0.7574 0.7574
1330207 Xylene 1332214 Asbestos	0.00019	22000	700	1.00 333.33
1333820 Chromium trioxide 1335326 Lead subacetate	0.15 0.000012		0.002	0.5200 0.7696
1335871 Hexachloronaphthalene				1.00
1336363 PCBs {Polychlorinated biphenyls} 1344281 Aluminum oxide (fibrous)	0.00057			1.00 1.00
1405103 Neomycin sulfate 1464535 Diepoxybutane				1.00 1.00
1582098 Trifluralin				1.00
1596845 Daminozide 1615801 1,2-Diethylhydrazine				1.00 1.00
1620219 Chlorcyclizine hydrochloride 1634044 Methyl tert-butyl ether	2.6E-07		8000	1.00 1.00
1689845 Bromoxynil	,			1.00
1694093 Benzyl violet 4B 1746016 2,3,7,8-Tetrachlorodibenzo-P-Dioxin	38		0.00004	1.00 1.00
1836755 Nitrofen (technical grade) 1897456 Chlorothalonil				1.00 1.00
1937377 Direct Black 38	0.14			1.00
2068782 Vincristine sulfate 2092560 D and C Red No. 8				1.00 1.00
2164172 Fluometuron 2234131 Octachloronaphthalene				1.00 1.00
2303164 Diallate				1.00
2385855 Mirex 2425061 Captafol				1.00 1.00
2475458 Disperse Blue 1 2551624 Sulfur Hexafluoride				1.00 1.00
2602462 Direct Blue 6	0.14			1.00
2646175 Oil Orange SS 2784943 HC Blue 1				1.00 1.00
2795393 Perfluorooctanoic acid {PFOA} (and its salts, esters, and sulfonates) 2807309 Ethylene glycol monopropyl ether				1.00 1.00
2832408 C. I. Disperse Yellow 3				1.00
3068880 beta-Butyrolactone 3268879 1,2,3,4,6,7,8,9-Octachlorodibenzo-P-dioxin	0.011		0.13	1.00 1.0000
3333673 Nickel carbonate	0.00026	0.2	0.014	0.4945
3468631 D and C Orange No. 1 3546109 Phenesterin				1.00 1.00
3564098 Ponceau 3R 3570750 2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole				1.00 1.00
3688537 AF-2	0.0011			1.00
3697243 5-Methylchrysene 3761533 Ponceau MX	0.0011			1.00 1.00
3771195 Nafenopin 3778732 Ifosfamide				1.00 1.00
3810740 Streptomycin sulfate				1.00
3963959 Methacycline hydrochloride 4170303 Crotonaldehyde				1.00 1.00
4342034 Dacarbazine 4549400 N-Nitrosomethylvinylamine				1.00 1.00
4680788 C. I. Acid Green 3				1.00
4759482 Isotretinoin 5160021 D and C Red No. 9				1.00 1.00
5216251 p-alpha,alpha,alpha-Tetrachlorotoluene 5411223 Benzphetamine hydrochloride				1.00 1.00
5522430 1-Nitropyrene	0.00011			1.00
6109973 3-Amino-9-ethylcarbazole hydrochloride 6112761 Mercaptopurine				1.00 1.00
6164983 Chlordimeform 6358538 Citrus Red No. 2				1.00 1.00
6484522 Ammonium nitrate				1.00
6533002 Norgestrel 7429905 Aluminum				1.00 1.00
7439921 Lead	0.000012		0.09	1.00
7439965 Manganese 7439976 Mercury		0.6	0.03	1.00 1.00
7440020 Nickel 7440224 Silver	0.00026	0.2	0.014	1.00 1.00
7440280 Thallium				1.00
7440360 Antimony 7440382 Arsenic	0.0033	0.2	0.015	1.00 1.00
7440393 Barium 7440417 Beryllium	0.0024		0.007	1.00 1.00
7440439 Cadmium	0.0024		0.007	1.00
7440473 Chromium 7440484 Cobalt	0.0077			1.00 1.00
7440508 Copper		100		1.00

7440622	Variables (Construction)		20		1.00
7440622	Vanadium (fume or dust) Zinc		30		1.00 1.00
	Sulfur Dioxide		660		0.7659
7446277	Lead phosphate	0.000012			0.7659
	Selenium sulfide			20	1.00
	Sulfur Trioxide		120 0.6	1	1.00
	Mercuric chloride 6-Nitrochrysene	0.011	0.6	0.03	1.00 1.00
	Titanium tetrachloride	0.011			1.00
7631869	Silica, crystalline			3	1.0000
	Cobalt chloride (hexahydrate)	0.00086			0.4539
	Hydrochloric acid		2100	9 7	1.00 1.00
	Phosphoric acid Hydrogen fluoride		240	14	1.00
	Ammonia		3200	200	1.00
7664939	Sulfuric acid		120	1	1.00
	Sodium Fluoride		0.6	14	0.4525
	Nitric acid Nickel Chloride	0.00026	86 0.2	0.014	1.00 0.4529
	Phosphorus trichloride	0.00020	0.2	0.014	1.00
	Phosphorus				1.00
	Bromine				1.00
	Potassium bromate	0.00014		0.2	1.00
	Lead chromate Arsenic acid	0.15 0.0033	0.2	0.2 0.015	0.1609 0.5278
	Calcium arsenate	0.0033	0.2	0.015	0.3766
	Selenium			20	1.00
	Chlorine		210	0.2	1.00
	Hydrogen Salenide		42 5	10	1.00
	Hydrogen Selenide Ammonium sulfate		3		1.00 1.00
	Selenium hexafluoride		240	14	0.5908
7784421			0.2	0.015	1.00
	Nickel sulfate	0.00026	0.2	0.014	0.3794
	Beryllium sulfate (tetrahydrate) Strontium chromate	0.0024 0.15		0.007 0.2	0.0508 0.2554
	Bromine Pentafluoride	0.13		0.2	1.00
	Phosphine			0.8	1.00
	Toxaphene				1.00
	Coal tars		100		1.00
8014957	Mancozeb		120		1.00 1.00
	Menotropins				1.00
	Iron dextran complex				1.00
	Metiram				1.00
	Nitrous oxide				1.00
	Phosphorus oxychloride Phosphorus pentachloride				1.00 1.00
	Cobalt sulfate (heptahydrate)	0.00086			0.3804
10028156	Ozone		180		1.00
	Hydrazine sulfate				1.00
	Hydrogen bromide Sterigmatocystin				1.00 1.00
	Chlorine dioxide			0.6	1.00
	Nitrogen Dioxide		470		1.00
	Cadmium chloride	0.0042		0.02	0.6132
	Cobalt sulfate	3			0.3804
	Cobalt nitrate (hexahydrate) Cobalt carbonyl	0.00086 0.0077			0.3221 0.3448
	Barium chromate	0.15		0.2	0.2053
	Sodium dichromate	0.15		0.2	0.3970
	N-Nitrosomethylethylamine	0.0063			1.00
	Crocidolite Chrysotile	0.00019 0.00019			333.33 333.33
	Nickel subsulfide	0.00019	0.2	0.014	0.2443
	Nickel hydroxide	0.00026	0.2	0.014	0.6332
	Manganese cyclopentadienyl tricarbonyl			0.09	0.2694
12108133 12122677	2-Methylcyclopentadienyl manganese tricarbonyl			0.09	0.2521
12172735		0.00019			1.00 333.33
12427382		0.00015			1.00
12510428	Erionite				1.00
	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}				1.00
	Cyhexatin Nickel nitrate {Nickel (II) nitrate}	0.00026	0.2	0.014	1.00 0.3213
	Nickel nitrate {Nickel (II) nitrate} N-Nitrososarcosine	0.00026	0.2	0.014	0.3213 1.00
	Flutamide				1.00
	Nickel carbonyl	0.00026	0.2	0.014	0.3438
	Iron pentacarbonyl	0.0004		0.005	1.00
	Beryllium sulfate Trilostane	0.0024		0.007	0.0857 1.00
	Calcium chromate	0.15		0.2	0.3332
	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}			- -	1.00

4808607 Silica, c	rystalline (respirable), in the form of cristobalite rystalline (respirable), in the form of quartz			3 3	1
4901087 Cycasin	aluminum fluoride			14	1 0.5
5475566 Methoti				14	v.: 1
5541454 Bromat		0.00014			0.6
5663271 Cisplati	1				1
5972608 Alachlo					1
6065831 Chromi		0.14	0.48	0.06	1
60/1866 Direct E 6543558 N-Nitro	rown 95 (technical grade)	0.14			1 1
5568028 Gyromi					1
5842038 Cobalt l		0.00086			0.3
230885 Danazol	, a				1
378897 Plicamy	cin				1
540299 Chromi		0.15		0.2	1
	iacetic acid, trisodium salt monohydrate				1
883664 Streptoz		2.0		0.0004	1
	9-Hexachlorodibenzo-P-dioxin	3.8		0.0004	1
325400 3,3°-Din 816120 Osmiun	ethoxybenzidine dihydrochloride				1 1
830813 Daunon					1
041930 Cobalt l	·	0.0077			0.0
725462 Cyanazi	·	0.0077			1
092173 Halazep					1
214928 Adriam					1
501817 Uretdio	ne (HDI) {Uretidone}		4.5	0.4	1
	bicin hydrochloride				1
267569 Iodine-1					1
-	d hydroxyanisole {BHA}				1
	enzenes (mixitures of)				1
167833 Tetrach	<u>-</u>				1
265718 Dipropy	pluenes (mixed isomers)				1
	benzenes (mixed isomers)				1
5551137 Trimeht	· · · · · · · · · · · · · · · · · · ·				1
	·C {2-Amino-9H-pyrido[2,3-b]indole}				1
471625 Toluene		0.000011	2	0.008	1
995915 Urofolli	·				1
407376 C.I. Dir	ect Blue 218 [PAH-Derivative/Related, POM]	0.14			1
3434868 3,3'-Dic	nloro-4,4'-diaminodiphenyl ether				1
8911015 Triazola					1
8981977 Alprazo					1
	ntachlorodibenzofuran	0.0011			1
	5-PENTACHLOROBIPHENYL (PCB 118)	0.0011		1.3	1
	TETRACHLORBIPHENYL (PCB77)	0.0038		0.4 1.3	1
	l'-Pentachlorobiphenyl {PCB 105} 5,5'-HEXACHLOROBIPHENYL (PCB 169)	0.0011 1.1		0.0013	1 1
3419420 Etoposi		1.1		0.0013	1
1256821 Acetoch					1
	exachlorodibenzo-p-dioxin				1
	lene glycol monomethyl ether				1
	,7,8-Heptachlorodibenzo-P-dioxin	0.38		0.004	1
6088229 Total Po	ntachlorodibenzo-p-dioxin				1
791045 Ribavir					1
	ptachlorodibenzo-p-dioxin				1
	1',5-HEXACHLOROBIPHENYL (PCB 156)	0.0011		1.3	1
	eptachlorodibenzofuran	0.011		0.12	1
	,7,8,9-Octachlorodibenzofuran	0.011		0.13	1
	ninoanisole sulfate ,8-Hexachlorodibenzo-P-dioxin	3.8		0.0004	1 1
300453 Dinocap		3.8		0.0004	1
-	I',5,5'-HEPTACHLORBIPHENYL (PCB 189)	0.0011		1.3	1
9831555 Amikac		0.0011		1.3	1
	-Pentachlorodibenzo-P-dioxin	38		0.00004	1
575944 Carbop				-	1
-	trachlorodibenzo-p-dioxin				1
397648 1,6-Dini		0.011			1
397659 1,8-Dini		0.0011			1
842071 Tobram					1
	etrachlorodibenzofuran	3.8		0.0004	1
	5,5'-HEXACHLOROBIPHENYL (PCB 167)	0.0011		1.3	1
973981 Polygee					1
1350480 Etretina 1965241 Tamoxit					1
	en citrate ,8,9-Heptachlorodibenzofuran	0.38		0.004	1
	exachlorodibenzofuran	0.38		0.004	1
	trachlorodibenzofuran				1
	(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol				1
6391572 Netilmio					1
	-Pentachlorodibenzofuran	11		0.00013	1
/11/314 2,3,4,7,8				0.0012	1
	-Pentachlorodibenzofuran	1.1		0.0013	1

57465288 3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)	3.8		0.0004	1.00
57653857 1,2,3,6,7,8-Hexachlorodibenzo-P-dioxin	3.8		0.0004	1.00
57835924 4-Nitropyrene	0.00011			1.00
59467968 Midazolam hydrochloride				1.00
60153493 3-(N-Nitrosomethylamino)propionitrile				1.00
60568050 Furmecyclox				1.00
60851345 2,3,4,6,7,8-Hexachlorodibenzofuran	3.8		0.0004	1.00
62015398 Misoprostol				1.00
62450060 Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}				1.00
62450071 Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}				1.00
62476599 Acifluorfen				1.00
64091914 4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}				1.00
65510443 2,3',4,4',5'-PENTACHOROBIPHENYL (PCB 123)	0.0011		1.3	1.00
67562394 1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.38		0.004	1.00
67730103 Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}				1.00
67730114 Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}				1.00
68006837 2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}				1.00
69782907 2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)	0.0011		1.3	1.00
70362504 3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)	0.011		0.13	1.00
70476823 Mitoxantrone hydrochloride				1.00
70648269 1,2,3,4,7,8-Hexachlorodibenzofuran	3.8		0.0004	1.00
72918219 1,2,3,7,8,9-Hexachlorodibenzofuran	3.8		0.0004	1.00
74472370 2,3,4,4',5-PENTACHLOBIPHENYL (PCB114)	0.0011		1.3	1.00
76180966 IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}				1.00
77501634 Lactofen				1.00
77536664 Actinolite	0.00019			333.33
77536675 Anthophyllite	0.00019			333.33
77536686 Tremolite	0.00019			333.33
86220420 Nafarelin acetate				1.00
08171262 Chlorinated paraffin	0.000025			1.00
91234227 Hydrocyanic acid		340	9	1.00
41972314 Hydrocyanic acid		340	9	1.00

CAS Substance 1000 Aflatoxins Update 221201 1005 Analgesic mixtures containing phenacetin 1010 Androgenic (anabolic) steroids 1016 Arsenic compounds (inorganic) 1017 Arsenic compounds (other than inorganic) 1020 Benzidine-based dyes 1025 Betel quid with tobacco 1030 Bitumens, extracts of steam-refined and air-refined bitumens 1035 Bleomycins 1050 Carbon black extract 1055 Carrageenan (degraded) 1056 Ceramic fibers (man-made) 1058 Chlorobenzenes 1059 p-Chloro-o-toluidine 1060 Chlorophenols 1065 Chlorophenoxy herbicides 1066 Coke Oven Emissions 1068 Conjugated estrogens 1070 Creosotes 1073 Cyanide compounds 1075 Dialkylnitrosamines 1078 Diaminotoluenes (mixed isomers) 1080 Dibenzofurans (chlorinated) {PCDFs} [Treated as 2378TCDD for HRA] 1085 Dioxins, total, with individ. isomers also reported {PCDDs} 1086 Dioxins, total, w/o individ. isomers reported {PCDDs} [Treat as 2378TCDD for HRA 1090 Environmental Tobacco Smoke 1091 Epoxy resins 1095 Estrogens, non-steroidal 1100 Estrogens, steroidal 1101 Fluorides and compounds 1103 Fluorocarbons (brominated) 1104 Fluorocarbons (chlorinated) 1110 Gasoline vapors 1111 Glasswool (man-made fibers) 1115 Glycol ethers (and their acetates) 1125 Isocyanates 1128 Lead compounds (inorganic) 1129 Lead compounds (other than inorganic) 1131 Lubricant base oils 1135 Mineral fibers (other than man-made) 1136 Mineral fibers (fine: man-made) 1140 Mineral oils (untreated and mildly treated oils) 1141 Modified Hydrogen fluoride {MHF} 1146 Nickel refinery dust 1148 Nitrilotriacetic acid (salts) 1150 PAHs, total, with individ. components also reported 1151 PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA] 1155 Polybrominated biphenyls 1160 Progestins 1165 Radionuclides 1166 Radon and its decay 1167 Retinol/retinyl este 1168 Rockwool (man-made fibers) 1175 Silica, crystalline 1180 Shale oils 1181 Slagwool (man-made fibers) **1185 Soots** 1190 Talc containing asbestiform fibers 1200 Tobacco products, smokeless 1205 alpha-chlorinated Toluenes 1206 Wood preservatives (containing arsenic and chromate) 1216 Cobalt compounds, insoluble 1217 Cobalt sulfate and other soluble cobalt compounds 1221 Polymeric (Oligo) HDI

1226 Diisocyanurate

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1227 HDI Prepolymer
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1228 Isocyanurate

- 2222 Polybrominated diphenyl ethers {PBDEs}
- 9901 Diesel engine exhaust, particulate matter (Diesel PM)
- 9902 Diesel engine exhaust, total organic gas
- 9910 Gasoline engine exhaust, particulate matter
- 9911 Gasoline engine exhaust, total organic gas
- 9960 Sulfates
- 9961 Sulfuric Acid + Oleum
- 11101 Particulate Matter
- 16113 Reactive Organic Gas
- 42101 Carbon Monoxide [Criteria Pollutant]
- 42401 Oxides of sulfur
- 42603 Oxides of Nitrogen
- 43101 Total Organic Gases
- 43104 Volatile Organic Compounds (VOC)
- 50000 Formaldehyde
- 50066 Phenobarbital
- 50077 Mitomycin C
- 50180 Cyclophosphamide
- 50282 Estradiol 17 beta
- 50293 DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane}
- 50328 Benzo[a]pyrene
- 50351 Thalidomide
- 50419 Clomiphene citrate
- 50555 Reserpine
- 50760 Actinomycin D
- 50782 Aspirin
- 51218 Fluorouracil
- 51285 2,4-Dinitrophenol
- 51525 Propylthiouracil
- 51752 Nitrogen mustard
- 51796 Urethane
- 52244 Tris(1-aziridinyl) phosphine sulfide
- 52675 Penicillamine
- 52686 Trichlorfon
- 53167 Estrone
- 53703 Dibenz[a,h]anthracene
- 53963 2-Acetylaminofluorene
- 54115 Nicotine
- 54626 Aminopterin
- 54911 Pipobroman
- 55185 N-Nitrosodiethylamine
- 55210 Benzamide
- 55630 Nitroglycerin
- 55867 Nitrogen mustard hydrochloride
- 55981 1,4-Butanediol dimethanesulfonate
- 56042 Methylthiouracil
- 56235 Carbon tetrachloride
- 56382 Parathion
- 56495 3-Methylcholanthrene
- 56531 Diethylstilbestrol
- 56553 Benz[a]anthracene
- 56757 Chloramphenicol
- 57125 Cyanide Compounds (Inorganic)
- 57147 1,1-Dimethylhydrazine
- 57330 Pentobarbital sodium
- 57410 Phenytoin
- 57578 beta-Propiolactone
- 57636 Ethinyl estradiol
- 57749 Chlordane
- 57830 Progesterone
- 57976 7,12-Dimethylbenz[a]anthracene
- 58184 Methyltestosterone
- **58220** Testosterone and its esters
- 58899 Lindane {gamma-Hexachlorocyclohexane}
- $58902\ 2,\!3,\!4,\!6\text{-}Tetrachlorophenol$

- 59052 Methotrexate
- 59870 Nitrofurazone
- 59892 N-Nitrosomorpholine
- 59961 Phenoxybenzamine
- 60093 p-Aminoazobenzene
- 60117 4-Dimethylaminoazobenzene
- 60344 Methyl hydrazine
- 60355 Acetamide
- 60560 Methimazole
- 60571 Dieldrin
- 61574 Niridazole
- 61825 Amitrole
- 62442 Phenacetin
- 62500 Ethyl methanesulfonate
- 62533 Aniline
- 62555 Thioacetamide
- 62566 Thiourea
- 62737 Dichlorovos {DDVP}
- 62759 N-Nitrosodimethylamine
- 63252 Carbaryl
- 63923 Phenoxybenzimide hydrochloride
- 63989 Phenacemide
- 64675 Diethyl sulfate
- 64755 Tetracycline hydrochoride
- 66273 Methyl methanesulfonate
- 66751 Uracil mustard
- 66819 Cycloheximide
- 67209 Nitrofurantoin
- 67458 Furazolidone
- 67561 Methanol
- 67630 Isopropyl alcohol
- 67663 Chloroform
- 67721 Hexachloroethane
- 68122 Dimethyl formamide
- 68224 Norethisterone
- 68768 Tris(aziridinyl)-p-benzoquinone
- 70257 N-Methyl-N'-nitro-N-nitrosoguanidine
- 71363 n-Butyl alcohol
- 71432 Benzene
- 71487 Cobalt acetate (tetrahydrate)*
- $71556\ Methyl\ chloroform\ \{1,1,1-Trichloroethane\}$
- 71589 Medroxyprogesterone
- 72333 Mestranol
- 72435 Methoxychlor
- $72548\ Dichlorodiphenyldichloroethane\ \{DDD\}$
- 72559 Dichlorodiphenyldichloroethylene {DDE}
- 72571 Trypan blue
- 74828 Methane
- 74839 Methyl bromide {Bromomethane}
- 74851 Ethylene
- 74873 Methyl chloride {Chloromethane}
- 74884 Methyl iodide {Iodomethane}
- 74908 Hydrogen Cyanide
- 74953 Methylene bromide
- 75003 Ethyl chloride {Chloroethane)
- 75014 Vinyl chloride
- 75025 Vinyl fluoride
- 75058 Acetonitrile
- 75070 Acetaldehyde
- 75092 Methylene chloride {Dichloromethane}
- 75150 Carbon disulfide
- 75218 Ethylene oxide
- 75252 Bromoform
- 75274 Bromodichloromethane
- 75343 1,1-Dichloroethane
- 75354 Vinylidene chloride
- 75376 1,1-Difluoroethane {Freon 152a}

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75434 Dichlorofluoromethane {Freon 21}
75445 Phosgene
75456 Chlorodifluoromethane {Freon 22}
75467 Trifluoromethane {Freon 23}
75558 2-Methylaziridine
75569 Propylene oxide
75650 tert-Butyl alcohol
75694 Trichlorofluoromethane {Freon 11}
75718 Dichlorodifluoromethene (Freon 12)
75730 Carbon tetrafluoride
75865 2-Methyllactonitrile
76062 Chloropicrin
76131 Chlorinated Fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane}
76437 Fluoxymesterone
76448 Heptachlor
77474 Hexachlorocyclopentadiene
77781 Dimethyl sulfate
78308 Triorthocresyl phosphate
78400 Triethyl phosphine
78591 Isophorone
78795 Isoprene, except from vegetative emission sources
78842 Isobutyraldehyde
78875 1,2-Dichloropropane
78886 2,3-Dichloropropene
78922 sec-Butyl alcohol
78933 Methyl ethyl ketone
79005 1,1,2-Trichloroethane
79016 Trichloroethylene
79061 Acrylamide
79107 Acrylic acid
79118 Chloroacetic acid
79210 Peracetic acid
79345 1,1,2,2-Tetrachloroethane
79447 Dimethyl carbamoyl chloride
79469 2-Nitropropane
79572 Oxytetracycline
80057 4,4'-Isopropylidenediphenol
80159 Cumene hydroperoxide
80626 Methyl methacrylate
81072 Saccharin
81812 Warfarin
81889 D and C Red No. 19
82280 1-Amino-2-methylanthraquinone
82688 Pentachloronitrobenzene {Quintobenzene}
83329 Acenaphthene
84173 Dienestrol
84662 Diethyl phthalate
84742 Dibutyl phthalate
85018 Phenanthrene
85101 Particulate Matter 1
85449 Phthalic anhydride
85687 Butyl benzyl phthalate
86306 N-Nitrosodiphenylamine
86737 Fluorene
87296 Cinnamyl anthranilate
87627 2,6-Xylidene
87683 Hexachlorobutadiene
87865 Pentachlorophenol
88062 2,4,6-Trichlorophenol
88101 Particulate Matter 2.5 Microns or less
88755 2-Nitrophenol
88857 Dinoseb
88891 Picric acid
90040 O-Anisidine
90437 2-Phenylphenol
90948 Michler's ketone
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91087 Toluene-2,6-diisocyanate

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91203 Naphthalene
91225 Quinoline
92524 Biphenyl
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91576 2-Methyl naphthalene

91598 2-Naphthylamine

91941 3,3'-Dichlorobenzidine

92671 4-Aminobiphenyl

92875 Benzidine (and its salts)

92933 4-Nitrobiphenyl

94360 Benzoyl peroxide

94586 Dihydrosafrole

94597 Safrole

94757 Dichlorophenoxyacetic acid, salts and esters {2,4-D}

94780 Phenazopyridine hydrochloride

95067 Sulfallate

95476 o-Xylene

95487 o-Cresol

95501 1,2-Dichlorobenzene

95534 o-Toluidine

95578 2-Chlorophenol

95636 1,2,4-Trimethylbenze

95692 p-Chloro-o-toluidine

95807 2,4-Diaminotoluene

95830 4-Chloro-o-phenylenediamine

95954 2,4,5-Trichlorophenol

96093 Styrene oxide

96128 1,2-Dibromo-3-chloropropane

96139 2,3-Dibromo-1-propanol

96184 1,2,3-Trichloropropane

96333 Methyl acrylate

96457 Ethylene thiourea

97563 o-Aminoazotoluene

98077 Benzoic trichloride

98566 1-Chloro-4-(trifluoromethyl)benzene [PCBTF]

98828 Cumene

98862 Acetophenone

98873 Benzal chloride

98884 Benzoyl chloride

98953 Nitrobenzene

99592 5-Nitro-o-anisidine

99650 m-Dinitrobenzene

99661 Valproate

100027 4-Nitrophenol

100210 Terephthalic acid

100254 p-Dinitrobenzene

100403 4-Vinylcyclohexene

100414 Ethyl benzene

100425 Styrene

100447 Benzyl chloride

100754 N-Nitrosopiperidine

101020 Triphenyl phosphite

101144 4,4'-Methylene bis(2 Chloroaniline) (MOCA)

101611 4,4'-Methylene bis (N,N-dimethyl) benzenamine

101688 Methylene diphenyl diisocyanate {MDI}

101779 4,4'-Methylenedianiline

101804 4,4'-Diaminodiphenyl ether

101906 Diglycidyl resorcinol ether {DGRE}

103231 Bis(2-ethylhexyl) adipate

103333 Azobenzene

104949 p-Anisidine

105602 Caprolactam

105679 2,4-Dimethylphenol {2,4-Xylenol}

106423 p-Xylene

106445 p-Cresol

106467 p-Dichlorobenzene

106478 p-Chloroaniline

106490 p-Toluidine

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106503 p-Phenylenediamine
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106514 Quinone

106876 4-Vinyl-1-cyclohexene diepoxide

106887 1,2-Epoxybutane

106898 Epichlorohydrin

106934 Ethylene dibromide {EDB}

106990 1,3-Butadiene

107028 Acrolein

107051 Allyl chloride

107062 Ethylene dichloride {EDC}

107131 Acrylonitrile

107186 Allyl alcohol

107211 Ethylene glycol

107302 Chloromethyl methyl ether (technical grade)

107982 Propylene glycol monomethyl ether

108054 Vinyl acetate

108101 Methyl isobutyl ketone {Hexone}

108190 Biuret

108316 Maleic anhydride

108383 m-Xylene

108394 m-Cresol

108601 Bis(2-chloro-1-methylethyl) ether

108656 Propylene glycol monomethyl ether acetate

108883 Toluene

108907 Chlorobenzene

108930 Cyclohexanol

108952 Phenol

109068 2-Methylpyridine

109864 Ethylene glycol monomethyl ether

110009 Furan

110496 Ethylene glycol monomethyl ether acetate

110543 Hexane

110714 Ethylene glycol dimethyl ether

110805 Ethylene glycol monoethyl ether

110827 Cyclohexane

110861 Pyridine

111159 Ethylene glycol monoethyl ether acetate

111308 Glutaraldehyde

111422 Diethanolamine

111444 Bis(2-chloroethyl) ether {DCEE}

111466 Diethylene glycol

111762 Ethylene glycol monobutyl ether

111773 Diethylene glycol monomethyl ether

111900 Diethylene glycol monoethyl ether

111966 Diethylene glycol dimethyl ether

112345 Diethylene glycol monobutyl ether

 ${\bf 112492} \ Trie thy lene \ glycol \ dimethyl \ ether$

114261 Propoxur

115026 Azaserine

115071 Propylene

115286 Chlorendic acid

115322 Dicofol

115673 Paramethadione

115866 Triphenyl phosphate

117793 2-Aminoanthraquinone

117817 Di(2-ethylhexyl) phthalate

117840 n-Dioctyl phthalate

118741 Hexachlorobenzene

119904 3,3'-Dimethoxybenzidine

119937 3,3'-Dimethylbenzidine {o-Tolidine}

120127 Anthracene

120581 Isosafrole

120718 p-Cresidine

120809 Catechol

120821 1,2,4-Trichlorobenzene

120832 2,4-Dichlorophenol

121142 2,4-Dinitrotoluene

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121448 Triethylamine
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121697 N,N-Dimethylaniline

122601 Phenyl glycidyl ether

122667 1,2-Diphenylhydrazine {Hydrazobenzene}

123319 Hydroquinone

123386 Propionaldehyde

123728 Butyraldehyde

123911 1,4-Dioxane

124403 Dimethylamine

124481 Chlorodibromomethane

125848 Aminoglutethimide

126078 Griseofulvin

126727 Tris(2,3-dibromopropyl)phosphate

126738 Tributyl phosphate

126998 Chloroprene

127184 Perchloroethylene {Tetrachloroethene}

127480 Trimethadione

128449 Sodium saccharin

129000 Pyrene

129157 2-Methyl-1-nitroanthraquinone (uncertain purity)

131113 Dimethyl phthalate

132274 Sodium o-phenylphenate

132649 Dibenzofuran

133062 Captan

133073 Folpet

133904 Chloramben

134292 o-Anisidine hydrochloride

134327 1-Naphthylamine

135206 Cupferron

136527 Cobalt octoate

139139 Nitrilotriacetic acid

139651 4,4'-Thiodianiline

139913 5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone

140578 Aramite

140885 Ethyl acrylate

141004 Cadmium succinate

141322 Butyl acrylate

142041 Aniline hydrochloride

143339 Sodium cyanide

143500 Chlordecone {Kepone}

143679 Vinblastine sulfate

147944 Cytarabine

148823 Melphalan

151508 Potassium cyanide

151564 Ethyleneimine {Aziridine}

154427 Thioguanine

154938 Bischloroethyl nitrosourea

156105 p-Nitrosodiphenylamine

156627 Calcium cyanamide

189559 Dibenzo[a,i]pyrene

189640 Dibenzo[a,h]pyrene

191242 Benzo[g,h,i]perylene

191300 Dibenzo[a,l]pyrene

192654 Dibenzo[a,e]pyrene

192972 Benzo[e]pyrene

193395 Indeno[1,2,3-cd]pyrene

194592 7H-Dibenzo[c,g]carbazole

198550 Perylene

205823 Benzo[j]fluoranthene

205992 Benzo[b]fluoranthene

206440 Fluoranthene

207089 Benzo[k]fluoranthene

208968 Acenaphthylene

218019 Chrysene

224420 Dibenz[a,j]acridine

226368 Dibenz[a,h]acridine

271896 Benzofuran

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299752 Treosulfan
301042 Lead acetate
302012 Hydrazine
302705 Nitrogen mustard N-oxide
302794 all-trans-Retinoic acid
303344 Lasiocarpine
303479 Ochratoxin A
305033 Chlorambucil
309002 Aldrin
315220 Monocrotaline
315377 Testosterone enanthate
319846 alpha-Hexachlorocyclohexane
319857 beta-Hexachlorocyclohexane
334883 Diazomethane
366701 Procarbazine hydrochloride
373024 Nickel acetate
379793 Ergotamine tartrate
434071 Oxymetholone
443481 Metronidazole
446866 Azathioprine
463581 Carbonyl sulfide
474259 Chenodiol
484208 5-Methoxypsoralen
492808 Auramine
494031 N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine}
505602 Mustard gas
509148 Tetranitromethane
510156 Chlorobenzilate
512561 Trimethyl phosphate
513371 Dimethylvinylchloride {DMVC}
513791 Cobalt carbonate
528290 o-Dinitrobenzene
531760 Merphalan
531828 N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide
532274 2-Chloroacetophenone
534521 4,6-Dinitro-o-cresol
540590 1,2-Dichloroethylene
540738 1,2-Dimethylhydrazine
540841 2,2,4-Trimethylpentane
540885 t-Butyl acetate
541413 Ethyl chloroformate
541731 1,3-Dichlorobenzene
542756 1,3-Dichloropropene
542881 Bis(chloromethyl) ether
546883 Acetohydroxamic acid
554132 Lithium carbonate
555840 1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone
556525 Glycidol
563473 3-Chloro-2-methylpropene
564250 Doxycycline
569619 C. I. Basic Red 9 monohydrochloride
569642 C. I. Basic Green 4
584849 Toluene-2,4-diisocyanate
590965 Methylazoxymethanol
592018 Calcium cyanide
592621 Methylazoxymethanol acetate
593602 Vinyl bromide
593748 Methyl mercury
595335 Megestrol acetate
602879 5-Nitroacenaphthene
606202 2,6-Dinitrotoluene
607578 2-Nitrofluorene
608731 Hexachlorocyclohexanes (mixed or technical grade)
612828 3,3'-Dimethylbenzidine dihydrochloride
613354 N,N'-Diacetylbenzidine
615054 2,4-Diaminoanisole
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615532 N-Nitroso-N-methylurethane

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621647 N-Nitrosodi-n-propylamine
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- 624839 Methyl isocyanate
- 629141 Ethylene glycol diethyl ether
- 630080 Carbon monoxide
- 630933 Diphenylhydantoin
- 636215 o-Toluidine hydrochloride
- 680319 Hexamethylphosphoramide
- 684935 N-Nitroso-N-methylurea
- 712685 2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole
- 759739 N-Nitroso-N-ethylurea
- **764410 1,4-Dichloro-2-butene**
- 765344 Glycidaldehyde
- 794934 Panfuran S
- 811972 1,1,1,2-Tetrafluoroethane {HFC-134a}
- 814891 Cobalt oxalate
- 822060 Hexamethylene-1,6-diisocyanate
- 838880 4,4'-Methylene bis(2-methylaniline)
- 846491 Lorazepam
- 846504 Temazepam
- 919164 Lithium citrate
- 924163 N-Nitrosodi-n-butylamine
- 924425 N-Methyloacrylamide
- 930552 N-Nitrosopyrrolidine
- 961115 Tetrachlorvinphos
- 989388 C. I. Basic Red 1
- 1024573 Heptachlor epoxide
- 1116547 N-Nitrosodiethanolamine
- 1120714 1,3-Propane sultone
- 1163195 Decabromodiphenyl oxide
- 1189851 tert-Butyl chromate(VI)
- 1271289 Nickelocene
- 1303000 Gallium arsenide
- 1303282 Arsenic pentoxide
- 1304569 Beryllium oxide
- 1307966 Cobalt [II] oxide
- 1308061 Cobalt [III] oxide
- 1309644 Antimony trioxide
- 1310732 Sodium hydroxide
- 1313275 Molybdenum trioxide
- 1313991 Nickel oxide
- 1314132 Zinc oxide
- 1314201 Thorium dioxide
- 1314563 Phosphorus pentoxide
- 1314621 Vanadium Pentoxide 1317426 Cobalt sulfide
- 1319773 Cresols (mixtures of) {Cresylic acid}
- 1326416 2,4-Dinitrotoluene, sulfurized
- 1327533 Arsenic trioxide
- 1330207 Xylene
- **1332214** Asbestos
- 1333820 Chromium trioxide
- 1335326 Lead subacetate
- 1335871 Hexachloronaphthalene
- 1336363 PCBs {Polychlorinated biphenyls}
- 1344281 Aluminum oxide (fibrous)
- 1405103 Neomycin sulfate
- 1464535 Diepoxybutane
- 1582098 Trifluralin
- 1596845 Daminozide
- 1615801 1,2-Diethylhydrazine
- 1620219 Chlorcyclizine hydrochloride
- 1634044 Methyl tert-butyl ether
- 1689845 Bromoxynil
- 1694093 Benzyl violet 4B
- 1746016 2,3,7,8-Tetrachlorodibenzo-P-Dioxin
- 1836755 Nitrofen (technical grade)
- 1897456 Chlorothalonil

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1937377 Direct Black 38
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2068782 Vincristine sulfate

2092560 D and C Red No. 8

2164172 Fluometuron

2234131 Octachloronaphthalene

2303164 Diallate

2385855 Mirex

2425061 Captafol

2475458 Disperse Blue 1

2551624 Sulfur Hexafluoride

2602462 Direct Blue 6

2646175 Oil Orange SS

2784943 HC Blue 1

2795393 Perfluorooctanoic acid {PFOA} (and its salts, esters, and sulfonates)

2807309 Ethylene glycol monopropyl ether

2832408 C. I. Disperse Yellow 3

3068880 beta-Butyrolactone

3268879 1,2,3,4,6,7,8,9-Octachlorodibenzo-P-dioxin

3333673 Nickel carbonate

3468631 D and C Orange No. 1

3546109 Phenesterin

3564098 Ponceau 3R

3570750 2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole

3688537 AF-2

3697243 5-Methylchrysene

3761533 Ponceau MX

3771195 Nafenopin

3778732 Ifosfamide

3810740 Streptomycin sulfate

3963959 Methacycline hydrochloride

4170303 Crotonaldehyde

4342034 Dacarbazine

4549400 N-Nitrosomethylvinylamine

4680788 C. I. Acid Green 3

4759482 Isotretinoin

5160021 D and C Red No. 9

5216251 p-alpha,alpha,alpha-Tetrachlorotoluene

5411223 Benzphetamine hydrochloride

5522430 1-Nitropyrene

6109973 3-Amino-9-ethylcarbazole hydrochloride

6112761 Mercaptopurine

6164983 Chlordimeform

6358538 Citrus Red No. 2

6484522 Ammonium nitrate

6533002 Norgestrel

7429905 Aluminum

7439921 Lead

7439965 Manganese

7439976 Mercury

7440020 Nickel

7440224 Silver

7440280 Thallium

7440360 Antimony

7440382 Arsenic

7440393 Barium

7440417 Beryllium

7440439 Cadmium 7440473 Chromium

7440484 Cobalt

7440508 Copper

7440622 Vanadium (fume or dust)

7440666 Zinc

7446095 Sulfur Dioxide

7446277 Lead phosphate

7446346 Selenium sulfide

7446719 Sulfur Trioxide

7487947 Mercuric chloride

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7496028 6-Nitrochrysene
 7550450 Titanium tetrachloride
 7631869 Silica, crystalline
 7646799 Cobalt chloride (hexahydrate)
 7647010 Hydrochloric acid
 7664382 Phosphoric acid
 7664393 Hydrogen fluoride
 7664417 Ammonia
 7664939 Sulfuric acid
 7681494 Sodium Fluoride
 7697372 Nitric acid
 7718549 Nickel Chloride
 7719122 Phosphorus trichloride
 7723140 Phosphorus
 7726956 Bromine
 7758012 Potassium bromate
 7758976 Lead chromate
 7778394 Arsenic acid
 7778441 Calcium arsenate
 7782492 Selenium
 7782505 Chlorine
 7783064 Hydrogen sulfide
 7783075 Hydrogen Selenide
 7783202 Ammonium sulfate
 7783791 Selenium hexafluoride
 7784421 Arsine
 7786814 Nickel sulfate
 7787566 Beryllium sulfate (tetrahydrate)
 7789062 Strontium chromate
 7789302 Bromine Pentafluoride
 7803512 Phosphine
8001352 Toxaphene
 8007452 Coal tars
 8014957 Oleum
8018017 Mancozeb
 9002680 Menotropins
9004664 Iron dextran complex
9006422 Metiram
10024972 Nitrous oxide
10025873 Phosphorus oxychloride
10026138 Phosphorus pentachloride
10026241 Cobalt sulfate (heptahydrate)
10028156 Ozone
10034932 Hydrazine sulfate
10035106 Hydrogen bromide
10048132 Sterigmatocystin
10049044 Chlorine dioxide
10102440 Nitrogen Dioxide
10108642 Cadmium chloride
10124433 Cobalt sulfate
10141056 Cobalt nitrate (hexahydrate)
10210681 Cobalt carbonyl
10294403 Barium chromate
10588019 Sodium dichromate
10595956 N-Nitrosomethylethylamine
12001284 Crocidolite
12001295 Chrysotile
12035722 Nickel subsulfide
12054487 Nickel hydroxide
12079651 Manganese cyclopentadienyl tricarbonyl
12108133 2-Methylcyclopentadienyl manganese tricarbonyl
12122677 Zineb
12172735 Amosite
12427382 Maneb
12510428 Erionite
13010474 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}
13121705 Cyhexatin
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13138459 Nickel nitrate {Nickel (II) nitrate}
13256229 N-Nitrososarcosine
13311847 Flutamide
13463393 Nickel carbonyl
13463406 Iron pentacarbonyl
13510491 Beryllium sulfate
13647353 Trilostane
13765190 Calcium chromate
13909096 1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}
14464461 Silica, crystalline (respirable), in the form of cristobalite
14808607 Silica, crystalline (respirable), in the form of quartz
14901087 Cycasin
15096523 Sodium aluminum fluoride
15475566 Methotrexate sodium
15541454 Bromate
15663271 Cisplatin
15972608 Alachlor
16065831 Chromium (III)
16071866 Direct Brown 95 (technical grade)
16543558 N-Nitrosonornicotine
16568028 Gyromitrin
16842038 Cobalt hydrocarbonyl
17230885 Danazol
18378897 Plicamycin
18540299 Chromium, hexavalent
18662538 Nitrilotriacetic acid, trisodium salt monohydrate
18883664 Streptozotocin
19408743 1,2,3,7,8,9-Hexachlorodibenzo-P-dioxin
20325400 3,3'-Dimethoxybenzidine dihydrochloride
20816120 Osmium tetroxide
20830813 Daunomycin
21041930 Cobalt hydroxide
21725462 Cyanazine
23092173 Halazepam
23214928 Adriamycin
23501817 Uretdione (HDI) {Uretidone}
23541506 Daunorubicin hydrochloride
24267569 Iodine-131
25013165 Butylated hydroxyanisole {BHA}
25154545 Dinitrobenzenes (mixitures of)
25167833 Tetrachlorophenols
25265718 Dipropylene glycol
25321146 Dinitrotoluenes (mixed isomers)
25321226 Dichlorobenzenes (mixed isomers)
25551137 Trimehtylbenzenes
26148685 A-alpha-C {2-Amino-9H-pyrido[2,3-b]indole}
26471625 Toluene Diisocyanate
26995915 Urofollitropin
28407376 C.I. Direct Blue 218 [PAH-Derivative/Related, POM]
28434868 3,3'-Dichloro-4,4'-diaminodiphenyl ether
28911015 Triazolam
28981977 Alprazolam
30402154 Total Pentachlorodibenzofuran
31508006 2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 118)
32598133 3,3',4,4'-TETRACHLORBIPHENYL (PCB77)
32598144 2,3,3',4,4'-Pentachlorobiphenyl {PCB 105}
32774166 3,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 169)
33419420 Etoposide
34256821 Acetochlor
34465468 Total Hexachlorodibenzo-p-dioxin
34590948 Dipropylene glycol monomethyl ether
35822469 1,2,3,4,6,7,8-Heptachlorodibenzo-P-dioxin
36088229 Total Pentachlorodibenzo-p-dioxin
36791045 Ribavirin
37871004 Total Heptachlorodibenzo-p-dioxin
38380084 2,3,3',4,4',5-HEXACHLOROBIPHENYL (PCB 156)
38998753 Total Heptachlorodibenzofuran
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39001020 1,2,3,4,6,7,8,9-Octachlorodibenzofuran
 39156417 2,4-Diaminoanisole sulfate
 39227286 1,2,3,4,7,8-Hexachlorodibenzo-P-dioxin
 39300453 Dinocap
39635319 2,3,3',4,4',5,5'-HEPTACHLORBIPHENYL (PCB 189)
39831555 Amikacin sulfate
 40321764 1,2,3,7,8-Pentachlorodibenzo-P-dioxin
 41575944 Carboplatin
 41903575 Total Tetrachlorodibenzo-p-dioxin
 42397648 1,6-Dinitropyrene
42397659 1,8-Dinitropyrene
49842071 Tobramycin sulfate
 51207319 2,3,7,8-Tetrachlorodibenzofuran
 52663726 2,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 167)
 53973981 Polygeenan
 54350480 Etretinate
 54965241 Tamoxifen citrate
 55673897 1,2,3,4,7,8,9-Heptachlorodibenzofuran
 55684941 Total Hexachlorodibenzofuran
 55722275 Total Tetrachlorodibenzofuran
 55738540 trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol
 56391572 Netilmicin sulfate
 57117314 2,3,4,7,8-Pentachlorodibenzofuran
 57117416 1,2,3,7,8-Pentachlorodibenzofuran
 57117449 1,2,3,6,7,8-Hexachlorodibenzofuran
 57465288 3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)
 57653857 1,2,3,6,7,8-Hexachlorodibenzo-P-dioxin
 57835924 4-Nitropyrene
 59467968 Midazolam hydrochloride
 60153493 3-(N-Nitrosomethylamino)propionitrile
 60568050 Furmecyclox
 60851345 2,3,4,6,7,8-Hexachlorodibenzofuran
 62015398 Misoprostol
 62450060 Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}
 62450071 Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}
 62476599 Acifluorfen
 64091914 4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}
 65510443 2,3',4,4',5'-PENTACHOROBIPHENYL (PCB 123)
 67562394 1,2,3,4,6,7,8-Heptachlorodibenzofuran
67730103 Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}
 67730114 Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}
 68006837 2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}
 69782907 2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)
 70362504 3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)
 70476823 Mitoxantrone hydrochloride
 70648269 1.2.3.4.7.8-Hexachlorodibenzofuran
 72918219 1,2,3,7,8,9-Hexachlorodibenzofuran
 74472370 2,3,4,4',5-PENTACHLOBIPHENYL (PCB114)
 76180966 IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}
 77501634 Lactofen
 77536664 Actinolite
 77536675 Anthophyllite
 77536686 Tremolite
86220420 Nafarelin acetate
108171262 Chlorinated paraffin
191234227 Hydrocyanic acid
341972314 Hydrocyanic acid
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Substance	CAS	
1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea {Methyl CCNU}	13909096	Update 221201
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea {CCNU}	13010474	_
1,1,1,2-Tetrafluoroethane {HFC-134a}	811972	
1,1,2,2-Tetrachloroethane	79345	
1,1,2-Trichloroethane	79005	
1,1-Dichloroethane	75343	
1,1-Difluoroethane {Freon 152a}	75376	
1,1-Dimethylhydrazine	57147	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001020	
1,2,3,4,6,7,8,9-Octachlorodibenzo-P-dioxin	3268879	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562394	
1,2,3,4,6,7,8-Heptachlorodibenzo-P-dioxin	35822469	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673897	
1,2,3,4,7,8-Hexachlorodibenzofuran	70648269	
1,2,3,4,7,8-Hexachlorodibenzo-P-dioxin	39227286	
1,2,3,6,7,8-Hexachlorodibenzofuran	57117449	
1,2,3,6,7,8-Hexachlorodibenzo-P-dioxin	57653857	
1,2,3,7,8,9-Hexachlorodibenzofuran	72918219	
1,2,3,7,8,9-Hexachlorodibenzo-P-dioxin	19408743	
1,2,3,7,8-Pentachlorodibenzofuran	57117416	
1,2,3,7,8-Pentachlorodibenzo-P-dioxin	40321764	
1,2,3-Trichloropropane	96184	
1,2,4-Trichlorobenze	120821	
1,2,4-Trimethylbenze	95636	
1,2-Dibromo-3-chloropropane	96128	
1,2-Dichlorobenzene	95501	
1,2-Dichloroethylene	540590	
1,2-Dichloropropane	78875	
1,2-Diethylhydrazine	1615801	
1,2-Dimethylhydrazine	540738	
1,2-Diphenylhydrazine {Hydrazobenzene}	122667	
1,2-Epoxybutane	106887	
1,3-Butadiene	106990	
1,3-Dichlorobenzene	541731	
1,3-Dichloropropene	542756	
1,3-Propane sultone	1120714	
1,4-Butanediol dimethanesulfonate	55981	
1,4-Dichloro-2-butene	764410	
1,4-Dioxane	123911	
1,6-Dinitropyrene	42397648 42397659	
1,8-Dinitropyrene		
1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone 1-Amino-2-methylanthraquinone	555840 82280	
1-Chloro-4-(trifluoromethyl)benzene [PCBTF]	98566	
1-Naphthylamine	134327	
1-Nitropyrene	5522430	
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570750	
2,2,4-Trimethylpentane	540841	
2,3,3',4,4',5,5'-HEPTACHLORBIPHENYL (PCB 189)	39635319	
2,3,3',4,4',5-HEXACHLOROBIPHENYL (PCB 156)	38380084	
2,3,3',4,4',5'-HEXACHLOROBIPHENYL (PCB 157)	69782907	
2,3,3',4,4'-Pentachlorobiphenyl {PCB 105}	32598144	
2,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 167)	52663726	
2,3,4,4',5-PENTACHLOBIPHENYL (PCB114)	74472370	
2,3',4,4',5-PENTACHLOROBIPHENYL (PCB 118)	31508006	
2,3',4,4',5'-PENTACHOROBIPHENYL (PCB 123)	65510443	
2,3,4,6,7,8-Hexachlorodibenzofuran	60851345	
2,3,4,6-Tetrachlorophenol	58902	
2,3,4,7,8-Pentachlorodibenzofuran	57117314	
2,3,7,8-Tetrachlorodibenzofuran	51207319	
2,3,7,8-Tetrachlorodibenzo-P-Dioxin	1746016	

2,3-Dibromo-1-propanol	96139
2,3-Dichloropropene	78886
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	88062
2,4-Diaminoanisole	615054
2,4-Diaminoanisole sulfate	39156417
2,4-Diaminotoluene	95807
2,4-Dichlorophenol	120832
2,4-Dimethylphenol {2,4-Xylenol}	105679
2,4-Dinitrophenol	51285
2,4-Dinitrotoluene	121142
2,4-Dinitrotoluene, sulfurized	1326416
2,6-Dinitrotoluene	606202
2,6-Xylidene	87627
2-Acetylaminofluorene	53963
2-Amino-3-methyl-9H-pyrido(2,3-b) indole {MeA-alpha-C}	68006837
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712685
2-Aminoanthraquinone	117793
2-Chloroacetophenone	532274
2-CHLOROPHENOL	95578
2-Methyl naphthalene	91576
2-Methyl-1-nitroanthraquinone (uncertain purity)	129157
2-Methylaziridine	75558
2-Methylcyclopentadienyl manganese tricarbonyl	12108133
2-Methyllactonitrile	75865
2-Methylpyridine	109068
2-Naphthylamine	91598
2-Nitrofluorene	607578
2-Nitrophenol	88755
2-Nitropropane	79469
2-Phenylphenol	90437
3-(N-Nitrosomethylamino)propionitrile	60153493
3,3',4,4',5,5'-HEXACHLOROBIPHENYL (PCB 169)	32774166
3,3',4,4',5-PENTACHLOROBIPHENYL (PCB 126)	57465288
3,3',4,4'-TETRACHLORBIPHENYL (PCB77)	32598133
3,3'-Dichloro-4,4'-diaminodiphenyl ether	28434868
3,3'-Dichlorobenzidine	91941
3,3'-Dimethoxybenzidine	119904
3,3'-Dimethoxybenzidine dihydrochloride	20325400
3,3'-Dimethylbenzidine {o-Tolidine}	119937
3,3'-Dimethylbenzidine dihydrochloride	612828
3,4,4',5-TETRACHLOROBIPHENYL (PCB 81)	70362504
3-Amino-9-ethylcarbazole hydrochloride	6109973
3-Chloro-2-methylpropene	563473
3-Methylcholanthrene	56495
4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone {NNK}	64091914
4,4'-Diaminodiphenyl ether	101804
4,4'-Isopropylidenediphenol	80057
4,4'-Methylene bis (N,N-dimethyl) benzenamine	101611
4,4'-Methylene bis(2 Chloroaniline) (MOCA)	101144
4,4'-Methylene bis(2-methylaniline)	838880
4,4'-Methylenedianiline	101779
4,4'-Thiodianiline	139651
4,6-Dinitro-o-cresol	534521
4-Aminobiphenyl	92671
4-Chloro-o-phenylenediamine	95830
4-Dimethylaminoazobenzene	60117
4-Nitrobiphenyl	92933
4-Nitrophenol	100027
4-Nitropyrene	57835924
4-Vinyl-1-cyclohexene diepoxide	106876
4-Vinylcyclohexene	100403

	400040
5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	139913
5-Methoxypsoralen	484208
5-Methylchrysene	3697243
5-Nitroacenaphthene	602879
5-Nitro-o-anisidine	99592
6-Nitrochrysene	7496028
7,12-Dimethylbenz[a]anthracene	57976
7H-Dibenzo[c,g]carbazole	194592
A-alpha-C {2-Amino-9H-pyrido[2,3-b]indole}	26148685
Acenaphthene	83329
Acenaphthylene	208968
Acetaldehyde	75070
Acetamide	60355
Acetochlor	34256821
Acetohydroxamic acid	546883
Acetonitrile	75058
Acetophenone	98862
Acifluorfen	62476599
Acrolein	107028
Acrylamide	79061
Acrylic acid	79107
Acrylonitrile	107131
Actinolite	77536664
Actinomycin D	50760
Adriamycin	23214928
AF-2	3688537
Aflatoxins	1000
Alachlor	15972608
Aldrin	309002
all-trans-Retinoic acid	302794
Allyl alcohol	107186
Allyl chloride	107051
alpha-chlorinated Toluenes	1205
alpha-Hexachlorocyclohexane	319846
Alprazolam	28981977
Aluminum	7429905
Aluminum oxide (fibrous)	1344281
Amikacin sulfate	39831555
Aminoglutethimide	125848
Aminopterin	54626
Amitrole	61825
Ammonia	7664417
Ammonium nitrate	6484522
Ammonium sulfate	7783202
Amosite	12172735
	1005
Analgesic mixtures containing phenacetin	1003
Androgenic (anabolic) steroids Aniline	
	62533
Aniline hydrochloride	142041
Anthophyllite	77536675
Anthracene	120127
Antimony	7440360
Antimony trioxide	1309644
Aramite	140578
Arsenic	7440382
Arsenic acid	7778394
Arsenic compounds (inorganic)	1016
Arsenic compounds (other than inorganic)	1017
Arsenic pentoxide	1303282
Arsenic trioxide	1327533
Arsine	7784421
Asbestos	1332214

A:	50792
Aspirin	50782
Auramine Azaserine	492808
Azathioprine	115026 446866
Azobenzene	103333
Barium	7440393
Barium chromate	10294403
Benz[a]anthracene	56553
Benzal chloride	98873
Benzamide	55210
Benzene	71432
Benzidine (and its salts)	92875
Benzidine-based dyes	1020
Benzo[a]pyrene	50328
Benzo[b]fluoranthene	205992
Benzo[e]pyrene	192972
Benzo[g,h,i]perylene	191242
Benzo[j]fluoranthene	205823
Benzo[k]fluoranthene	207089
Benzofuran	271896
Benzoic trichloride	98077
Benzoyl chloride	98884
Benzoyl peroxide	94360
Benzphetamine hydrochloride	5411223
Benzyl chloride	100447
Benzyl violet 4B	1694093
Beryllium	7440417
Beryllium oxide	1304569
Beryllium sulfate	13510491
Beryllium sulfate (tetrahydrate)	7787566
beta-Butyrolactone	3068880
beta-Hexachlorocyclohexane	319857
beta-Propiolactone	57578
Betel quid with tobacco	1025
Biphenyl	92524
Bis(2-chloro-1-methylethyl) ether	108601
Bis(2-chloroethyl) ether {DCEE}	111444
Bis(2-ethylhexyl) adipate	103231
Bis(chloromethyl) ether	542881
Bischloroethyl nitrosourea	154938
Bitumens, extracts of steam-refined and air-refined bitumens	1030
Biuret	108190
Bleomycins	1035
Bromate	15541454
Bromine	7726956
Bromine Pentafluoride	7789302
Bromodichloromethane	75274
Bromoform	75252
Bromoxynil	1689845
Butyl acrylate	141322
Butyl benzyl phthalate	85687
Butylated hydroxyanisole {BHA}	25013165
Butyraldehyde C. I. Acid Green 3	123728 4680788
C. I. Basic Green 4	569642
C. I. Basic Green 4 C. I. Basic Red 1	989388
	569619
C. I. Basic Red 9 monohydrochloride C. I. Disperse Yellow 3	2832408
C.I. Disperse Tellow 3 C.I. Direct Blue 218 [PAH-Derivative/Related, POM]	28407376
Cadmium	7440439
Cadmium chloride	10108642
Cadmium succinate	141004
	111007

	7770441
Calcium arsenate	7778441
Calcium chromate	13765190
Calcium cyanamide	156627
Calcium cyanide	592018 105602
Caprolactam Captafol	2425061
Captan	133062
Carbaryl	63252
Carbon black extract	1050
Carbon disulfide	75150
Carbon monoxide	630080
Carbon Monoxide [Criteria Pollutant]	42101
Carbon tetrachloride	56235
Carbon tetrafluoride	75730
Carbonyl sulfide	463581
Carboplatin	41575944
Carrageenan (degraded)	1055
Catechol	120809
Ceramic fibers (man-made)	1056
Chenodiol	474259
Chloramben	133904
Chlorambucil	305033
Chloramphenicol	56757
Chlorcyclizine hydrochloride	1620219
Chlordane	57749
Chlordecone {Kepone}	143500
Chlordimeform	6164983
Chlorendic acid	115286
Chlorinated Fluorocarbon {CFC-113} {1,1,2-Trichloro-1,2,2-trifluoroethane}	76131
Chlorinated paraffin	108171262
Chlorine	7782505
Chlorine dioxide	10049044
Chlorobenzene	79118
Chlorobenzenes	108907
	1058 510156
Chlorodibromomethane	124481
Chlorodifluoromethane {Freon 22}	75456
Chloroform	67663
Chloromethyl methyl ether (technical grade)	107302
Chlorophenols	1060
Chlorophenoxy herbicides	1065
Chloropicrin	76062
Chloroprene	126998
Chlorothalonil	1897456
Chromium	7440473
Chromium (III)	16065831
Chromium trioxide	1333820
Chromium, hexavalent	18540299
Chrysene	218019
Chrysotile	12001295
Cinnamyl anthranilate	87296
Cisplatin	15663271
Citrus Red No. 2	6358538
Cloniphene citrate	50419
Coal tars	8007452
Cobalt IIII ovide	7440484
Cobalt [III] oxide	1307966
Cobalt [III] oxide Cobalt acetate (tetrahydrate)*	1308061 71487
Cobalt carbonate	513791
Cobalt carbonyl	10210681
200 201.0011.	10210001

	7646700
Cobalt chloride (hexahydrate)	7646799
Cobalt compounds, insoluble Cobalt hydrocarbonyl	1216 16842038
Cobalt hydroxide	21041930
Cobalt nitrate (hexahydrate)	10141056
Cobalt octoate	136527
Cobalt oxalate	814891
Cobalt sulfate	10124433
Cobalt sulfate (heptahydrate)	10026241
Cobalt sulfate and other soluble cobalt compounds	1217
Cobalt sulfide	1317426
Coke Oven Emissions	1066
Conjugated estrogens	1068
Copper	7440508
Creosotes	1070
Cresols (mixtures of) {Cresylic acid}	1319773
Crocidolite	12001284
Crotonaldehyde	4170303
Cumene	98828
Cumene hydroperoxide	80159
Cupferron Cyanazine	135206 21725462
Cyanide compounds	1073
CYANIDE COMPOUNDS [Inorganic)	57125
Cycasin	14901087
Cyclohexane	110827
Cyclohexanol	108930
Cycloheximide	66819
Cyclophosphamide	50180
Cyhexatin	13121705
Cytarabine	147944
D and C Orange No. 1	3468631
D and C Red No. 19	81889
D and C Red No. 8	2092560
D and C Red No. 9	5160021
Dacarbazine	4342034
Daminozide	1596845
Danazol	17230885
Daunomycin	20830813
Daunorubicin hydrochloride	23541506
DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane}	50293
Decabromodiphenyl oxide	1163195
Di(2-ethylhexyl) phthalate	117817
Dialkylnitrosamines	1075
Diallate Diaminotoluenes (mixed isomers)	2303164 1078
Diazomethane	334883
Dibenz[a,h]acridine	226368
Dibenz[a,h]anthracene	53703
Dibenz[a,j]acridine	224420
Dibenzo[a,e]pyrene	192654
Dibenzo[a,h]pyrene	189640
Dibenzo[a,i]pyrene	189559
Dibenzo[a,l]pyrene	191300
Dibenzofuran	132649
Dibenzofurans (chlorinated) {PCDFs} [Treated as 2378TCDD for HRA]	1080
Dibutyl phthalate	84742
Dichlorobenzenes (mixed isomers)	25321226
Dichlorodifluoromethene (Freon 12)	75718
Dichlorodiphenyldichloroethane {DDD}	72548
Dichlorodiphenyldichloroethylene {DDE}	72559
Dichlorofluoromethane {Freon 21}	75434

Dichlorophenoxyacetic acid, salts and esters {2,4-D}	94757
Dichlorovos {DDVP}	62737
Dicofol	115322
Dieldrin	60571
Dienestrol	84173
Diepoxybutane	1464535
Diesel engine exhaust, particulate matter (Diesel PM)	9901
Diesel engine exhaust, total organic gas	9902
Diethanolamine	111422
Diethyl phthalate	84662
Diethyl sulfate	64675
Diethylene glycol	111466
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Diethylene glycol dimethyl ether	111966
Diethylene glycol monobutyl ether	112345
Diethylene glycol monoethyl ether	111900
Diethylene glycol monomethyl ether	111773
Diethylstilbestrol	56531
Diglycidyl resorcinol ether {DGRE}	101906
Dihydrosafrole	94586
Diisocyanurate	1226
Dimethyl carbamoyl chloride	79447
Dimethyl formamide	68122
Dimethyl phthalate	131113
Dimethyl sulfate	77781
Dimethylamine	124403
Dimethylvinylchloride {DMVC}	513371
Dinitrobenzenes (mixitures of)	25154545
Dinitrotoluenes (mixed isomers)	25321146
Dinocap	39300453
Dinoseb	
	88857
Dioxins, total, w/o individ. isomers reported {PCDDs} [Treat as 2378TCDD for HRA	1086
Dioxins, total, with individ. isomers also reported {PCDDs}	1085
Diphenylhydantoin	630933
Dipropylene glycol	25265718
Dipropylene glycol monomethyl ether	34590948
Direct Black 38	1937377
Direct Blue 6	2602462
Direct Brown 95 (technical grade)	16071866
Disperse Blue 1	2475458
Doxycycline	564250
Environmental Tobacco Smoke	1090
Epichlorohydrin	106898
Epoxy resins	1091
Ergotamine tartrate	379793
Erionite	12510428
Estradiol 17 beta	50282
	1095
Estrogens, non-steroidal	
Estrogens, steroidal	1100
Estrone	53167
Ethinyl estradiol	57636
Ethyl acrylate	140885
Ethyl benzene	100414
Ethyl chloride {Chlorethane)	75003
Ethyl chloroformate	541413
Ethyl methanesulfonate	62500
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Ethylene	74851
Ethylene dibromide {EDB}	106934
Ethylene dichloride {EDC}	107062
Ethylene glycol	107211
Ethylene glycol diethyl ether	629141
Ethylene glycol dimethyl ether	110714
Ethylene glycol monobutyl ether	111762
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Ethylene glycol monoethyl ether	110805
Ethylene glycol monoethyl ether acetate	111159
Ethylene glycol monomethyl ether	109864
Ethylene glycol monomethyl ether acetate	110496
Ethylene glycol monopropyl ether	2807309
Ethylene oxide	75218
Ethylene thiourea	96457
Ethyleneimine {Aziridine}	151564
Etoposide	33419420
Etretinate	54350480
Fluometuron	2164172
Fluoranthene	
	206440
Fluorene	86737
Fluorides	1101
Fluorocarbons (brominated)	1103
Fluorocarbons (chlorinated)	1104
Fluorouracil	51218
Fluoxymesterone	76437
Flutamide	13311847
Folpet	133073
Formaldehyde	50000
Furan	110009
Furazolidone	67458
Furmecyclox	60568050
Gallium arsenide	1303000
Gasoline engine exhaust, particulate matter	9910
Gasoline engine exhaust, total organic gas	9911
Gasoline vapors	1110
Glasswool (man-made fibers)	1111
Glu-P-1 {2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole}	67730114
Glu-P-2 {2-Aminodipyrido[1,2-a:3',2'-d]imidazole}	67730103
Glutaraldehyde	111308
Glycidaldehyde	765344
Glycidol	556525
Glycol ethers (and their acetates)	1115
Griseofulvin	126078
Gyromitrin	16568028
Halazepam	23092173
HC Blue 1	2784943
HDI Prepolymer	1227
Heptachlor	76448
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Heptachlor epoxide	1024573
Hexachlorobenzene	118741
Hexachlorobutadiene	87683
Hexachlorocyclohexanes (mixed or technical grade)	608731
Hexachlorocyclopentadiene	77474
Hexachloroethane	67721
Hexachloronaphthalene	1335871
Hexamethylene-1,6-diisocyanate	822060
Hexamethylphosphoramide	680319
Hexane	110543
Hydrazine	302012
Hydrazine sulfate	10034932
Hydrochloric acid	7647010
Hydrogen Cyanide	74908
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Hydrocyanic acid	191234227
Hydrocyanic acid	341972314
Hydrogen bromide	10035106
Hydrogen fluoride	7664393
Hydrogen Selenide	7783075
Hydrogen sulfide	7783064
Hydroquinone	123319

10 0 1	2779722
Ifosfamide	3778732
Indeno[1,2,3-cd]pyrene Iodine-131	193395 24267569
IQ {2-Amino-3-methylimidazo[4,5-f]quinoline}	76180966
Iron dextran complex	9004664
Iron pentacarbonyl	13463406
Isobutyraldehyde	78842
Isocyanates	1125
Isocyanurate	1228
Isophorone	78591
Isoprene, except from vegetative emission sources	78795
Isopropyl alcohol	67630
Isosafrole	120581
Isotretinoin	4759482
Lactofen	77501634
Lasiocarpine Lead	303344 7439921
Lead acetate	301042
Lead chromate	7758976
Lead compounds (inorganic)	1128
Lead compounds (other than inorganic)	1129
Lead phosphate	7446277
Lead subacetate	1335326
Lindane {gamma-Hexachlorocyclohexane}	58899
Lithium carbonate	554132
Lithium citrate	919164
Lorazepam	846491
Lubricant base oils	1131
Maleic anhydride	108316
Mancozeb	8018017
Maneb	12427382
Manganese Manganese avalamenta dianyi tricarhanyi	7439965 12079651
Manganese cyclopentadienyl tricarbonyl m-Cresol	108394
m-Dinitrobenzene	99650
Medroxyprogesterone	71589
Megestrol acetate	595335
Melphalan	148823
Menotropins	9002680
Mercaptopurine	6112761
Mercuric chloride	7487947
Mercury	7439976
Merphalan	531760
Mestranol	72333
Methacycline hydrochloride	3963959
Methane Methane	74828
Methanol Methimazole	67561 60560
Methotrexate	59052
Methotrexate sodium	15475566
Methoxychlor	72435
Methyl acrylate	96333
Methyl bromide {Bromomethane}	74839
Methyl chloride {Chloromethane}	74873
Methyl chloroform {1,1,1-Trichloroethane}	71556
Methyl ethyl ketone	78933
Methyl hydrazine	60344
Methyl iodide {Iodomethane}	74884
Methyl isobutyl ketone {Hexone}	108101
Methyl isocyanate	624839
Methyl mercury	593748
Methyl methacrylate	80626

Methyl methanesulfon	66273
Methyl tert-butyl ether	1634044
Methylazoxymethanol	590965
Methylazoxymethanol acetate	592621
Methylene bromide	74953
Methylene chloride {Dichloromethane}	75092
Methylene diphenyl diisocyanate {MDI}	101688
Methyltestosterone	58184
Methylthiouracil	56042
Metiram	9006422
Metronidazole	443481
Michler's ketone	90948
Midazolam hydrochloride	59467968
Mineral fibers (fine: man-made)	1136
Mineral fibers (other than man-made)	1135
Mineral oils (untreated and mildly treated oils)	1140
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Mirex	2385855
Misoprostol	62015398
Mitomycin C	50077
Mitoxantrone hydrochloride	70476823
Modified Hydrogen fluoride {MHF}	1141
Molybdenum trioxide	1313275
Monocrotaline	315220
Mustard gas	505602
m-Xylene	108383
N,N'-Diacetylbenzidine	613354
N,N-Dimethylaniline	121697
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	531828
Nafarelin acetate	86220420
Nafenopin	3771195
Naphthalene	91203
n-Butyl alcohol	71363
n-Dioctyl phthalate	117840
Neomycin sulfate	1405103
Netilmicin sulfate	56391572
Nickel	7440020
Nickel acetate	373024
Nickel carbonate	3333673
Nickel carbonyl	13463393
Nickel Chloride	7718549
Nickel hydroxide	12054487
Nickel nitrate {Nickel (II) nitrate}	13138459
Nickel oxide	1313991
Nickel refinery dust	1146
Nickel subsulfide	12035722
Nickel sulfate	7786814
Nickelocene	1271289
Nicotine	54115
Niridazole	61574
Nitric acid	7697372
Nitrilotriacetic acid	139139
Nitrilotriacetic acid (salts)	1148
Nitrilotriacetic acid, trisodium salt monohydrate	18662538
Nitrobenzene	98953
Nitrofen (technical grade)	1836755
Nitrofurantoin	67209
Nitrofurazone	59870
Nitrogen Dioxide	10102440
Nitrogen mustard	51752
Nitrogen mustard hydrochloride	55867
Nitrogen mustard N-oxide	302705
Nitroglycerin	55630
Triu Ogrycoriii	33030

Nitrous oxide	10024972
N-Methyl-N'-nitro-N-nitrosoguanidine	70257
N-Methyloacrylamide	924425
N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine}	494031
N-Nitrosodiethanolamine	1116547
N-Nitrosodiethylamine	55185
N-Nitrosodimethylamine	62759
N-Nitrosodi-n-butylamine	924163
N-Nitrosodi-n-propylamine	621647
N-Nitrosodiphenylamine	86306
N-Nitrosomethylethylamine	10595956
N-Nitrosomethylvinylamine	4549400
N-Nitrosomorpholine	59892
N-Nitroso-N-ethylurea	759739
N-Nitroso-N-methylurea	684935
N-Nitroso-N-methylurethane	615532
N-Nitrosonornicotine	16543558
N-Nitrosopiperidine	100754
N-Nitrosopyrrolidine	930552
N-Nitrososarcosine	13256229
Norethisterone	68224
Norgestrel	6533002
o-Aminoazotoluene	97563
O-Anisidine	90040
o-Anisidine hydrochloride	134292
Ochratoxin A	303479
o-Cresol	95487
Octachloronaphthalene	2234131
o-Dinitrobenzene	528290
Oil Orange SS	2646175
OLEUM	8014957
Osmium tetroxide	20816120
o-Toluidine	95534
o-Toluidine hydrochloride	636215
Oxides of Nitrogen	42603
Oxides of sulfur	42401
o-Xylene	95476
Oxymetholone	434071
Oxytetracycline	79572
Ozone	10028156
PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	1151
PAHs, total, with individ. components also reported	1150
p-alpha,alpha,alpha-Tetrachlorotoluene	5216251
p-Aminoazobenzene	60093
Panfuran S	794934
p-Anisidine	104949
Paramethadione	115673
Parathion	56382
Particulate Matter	11101
Particulate Matter 1	85101
Particulate Matter 2.5 Microns or less	88101
PCBs {Polychlorinated biphenyls}	1336363
p-Chloroaniline	106478
p-Chloro-o-toluidine	1059
p-Chloro-o-toluidine	95692
p-Cresidine	120718
p-Cresol	106445
p-Dichlorobenzene	106467
p-Dinitrobenzene	100254
Penicillamine	52675
Pentachloronitrobenzene {Quintobenzene}	82688
Pentachlorophenol	87865
L	3,003

Pentobarbital sodium	57330
Peracetic acid	79210
Perchloroethylene {Tetrachloroethene}	127184
Perfluorooctanoic acid {PFOA} (and its salts, esters, and sulfonates)	2795393
Perylene	198550
Phenacemide	63989
Phenacetin	62442
Phenanthrene	85018
Phenazopyridine hydrochloride	94780
Phenesterin	3546109
Phenobarbital	50066
Phenol	108952
Phenoxybenzamine	59961
Phenoxybenzimide hydrochloride	63923
Phenyl glycidyl ether	122601
Phenytoin	57410
Phosgene	75445
Phosphine	7803512
Phosphoric acid	7664382
Phosphorus	7723140
Phosphorus oxychloride	10025873
Phosphorus pentachloride	10026138
Phosphorus pentoxide	1314563
Phosphorus trichloride	7719122
Phthalic anhydride	85449
Picric acid	88891
Pipobroman	54911
Plicamycin	18378897
p-Nitrosodiphenylamine	156105
Polybrominated biphenyls	1155
Polybrominated diphenyl ethers {PBDEs}	2222
Polygeenan	53973981
Polymeric (Oligo) HDI	1221
Ponceau 3R	3564098
Ponceau MX	3761533
Potassium bromate	7758012
Potassium cyanide	151508
p-Phenylenediamine	106503
Procarbazine hydrochloride	366701
Progesterone	57830
Progestins	1160
Propionaldehyde	123386
Propoxur	114261
Propylene	115071
Propylene glycol monomethyl ether	107982
Propylene glycol monomethyl ether acetate	108656
Propylene oxide	75569
Propylthiouracil	51525
p-Toluidine	106490
p-Xylene	106423
Pyrene	129000
Pyridine	110861
Quinoline	91225
Quinone	106514
Radionuclides	1165
Radon and its decay	1166
Reactive Organic Gas	16113
Reserpine	50555
Retinol/retinyl este	1167
Ribavirin	36791045
Rockwool (man-made fibers)	1168
Saccharin	81072

Safrole	94597
sec-Butyl alcohol	78922
Selenium	7782492
Selenium hexafluoride	7783791
Selenium sulfide	7446346
Shale oils	1180
Silica, crystalline	1175
Silica, crystalline	7631869
Silica, crystalline (respirable), in the form of cristobalite	14464461
Silica, crystalline (respirable), in the form of quartz	14808607
Silver	7440224
Slagwool (man-made fibers) Sodium aluminum fluoride	1181 15096523
	13096323
Sodium cyanide Sodium dichromate	10588019
Sodium Fluoride	7681494
Sodium hydroxide	1310732
Sodium o-phenylphenate	132274
Sodium saccharin	128449
Soots	1185
Sterigmatocystin	10048132
Streptomycin sulfate	3810740
Streptozotocin	18883664
Strontium chromate	7789062
Styrene	100425
Styrene oxide	96093
Sulfallate	95067
Sulfates	9960
Sulfur Dioxide	7446095
Sulfur Hexafluoride	2551624
Sulfur Trioxide	7446719
Sulfuric acid	7664939
Sulfuric Acid + Oleum	9961
Talc containing asbestiform fibers	1190
Tamoxifen citrate t-Butyl acetate	54965241 540885
Temazepam	846504
Terephthalic acid	100210
tert-Butyl alcohol	75650
tert-Butyl chromate(VI)	1189851
Testosterone and its esters	58220
Testosterone enanthate	315377
Tetrachlorophenols	25167833
Tetrachlorvinphos	961115
Tetracycline hydrochoride	64755
Tetranitromethane	509148
Thalidomide	50351
Thallium	7440280
Thioacetamide	62555
Thioguanine	154427
Thiourea	62566
Thorium dioxide	1314201
Titanium tetrachloride	7550450
Tobacco products, smokeless	1200
Tobramycin sulfate Toluene	49842071
	108883 26471625
Toluene Diisocyanate Toluene-2,4-diisocyanate	584849
Toluene-2,6-diisocyanate	91087
Total Heptachlorodibenzofuran	38998753
Total Heptachlorodibenzo-p-dioxin	37871004
Total Hexachlorodibenzofuran	55684941

Total Hexachlorodibenzo-p-dioxin	34465468
Total Organic Gases	43101
Total Pentachlorodibenzofuran	30402154
Total Pentachlorodibenzo-p-dioxin	36088229
Total Tetrachlorodibenzofuran	55722275
Total Tetrachlorodibenzo-p-dioxin	41903575
Toxaphene	8001352
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol	55738540
Tremolite	77536686
Treosulfan	299752
Triazolam	28911015
Tributyl phosphate	126738
Trichlorfon	52686
Trichloroethylene	79016
Trichlorofluoromethane {Freon 11}	75694
Triethyl phosphine	78400
Triethylamine	121448
Triethylene glycol dimethyl ether	112492
Trifluoromethane {Freon 23}	75467
Trifluralin	1582098
Trilostane	13647353
Trimethadione	127480
Trimethyl phosphate	512561
Trimehtylbenzenes	25551137
Triorthocresyl phosphate	78308
Triphenyl phosphate	115866
Triphenyl phosphite	101020
Tris(1-aziridinyl) phosphine sulfide	52244
Tris(2,3-dibromopropyl)phosphate	126727
Tris(aziridinyl)-p-benzoquinone	68768
Trp-P-1 {3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole}	62450060
Trp-P-2 {3-Amino-1-methyl-5H-pyrido[4,3-b]indole}	62450071
Trypan blue	72571
Uracil mustard	66751
Uretdione (HDI) {Uretidone}	23501817
Urethane	51796
Urofollitropin	26995915
Valproate	99661
Vanadium (fume or dust)	7440622
Vanadium Pentoxide	1314621
Vinblastine sulfate	143679
Vincristine sulfate	2068782
Vinyl acetate	108054
Vinyl bromide	593602
Vinyl chloride	75014
Vinyl fluoride	75025
Vinylidene chloride	75354
Volatile Organic Compounds (VOC)	43104
Warfarin	81812
Wood preservatives (containing arsenic and chromate)	1206
Xylene	1330207
Zinc	7440666
Zinc oxide	1314132
Zineb	12122677

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APPENDIX D

BIOLOGICAL RESOURCES ASSESSMENT

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CARLSBAD
FRESNO
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

September 13, 2021

Adam Ross, Vice President Ross and Sons 7828 South Maple Avenue Fresno, California 93725

Subject: Biological Resources Assessment for the Proposed Pistachio Processing Facility

98-acres west of West Panoche Road, Fresno County, California

Dear Mr. Ross:

The purpose of this Biological Resources Technical Memorandum is to describe and document potential impacts to biological resources—including special-status species—associated with a proposed pistachio processing facility (proposed project) on approximately 98 acres of vacant land on an approximately 316-acre parcel in western Fresno County, California (Assessors Parcel [APN] Number 019-150-64S). This technical information is provided for project review under Fresno County, California Environmental Policy Act (CEQA), and other pertinent environmental regulations. This document provides a biological resources impact analysis that reflects the current environmental setting, project design, and regulatory context.

PROJECT DESCRIPTION

The proposed project includes construction of a pistachio processing facility that will be used by the owner to process pistachio harvest from approximately 7,500 acres of mature pistachio orchards. For the purposes of this assessment, the entire 98acre "project site" would be disturbed/developed during proposed phased grading and construction activities. The majority of the approximately 316-acre parcel would not be modified. Phase 1 is proposed to begin construction in 2022, Phase 2 is proposed for construction between 2024 and 2027, Phase 3 is proposed for construction between 2026 and 2027, and Phase 4 is proposed for construction between 2028 and 2029. There are no project components proposed for construction outside of the project site.

PROJECT SETTING

The approximately 98-acre project site is located north of the Annedale Avenue alignment, west of West Panoche Road and South Newcome Avenue alignment approximately 8 miles southwest of Mendota, Fresno County, California. Elevations on the project site range from approximately 290 to 300 feet above mean sea level. Primary land uses in the project vicinity are predominantly agriculture. The project site is bounded by fallow agricultural field to the south, almond orchard to the southwest, fallow field and garlic field to the west, vineyard to the northwest, melons to the north, and pomegranate orchard to the east. The project site is relatively flat; all parts of the project site had been manipulated by humans. A few agricultural ditches occur on property boundaries; no natural drainage features or wetlands are located within the project site or in the immediate vicinity.

METHODS

Literature Review and Records Search

LSA Senior Biologist Wendy Fisher conducted a literature review and records search on July 24, 2021, to identify the existence and potential for occurrence of sensitive or special-status plant and animal species¹ in the project vicinity. Federal and State lists of sensitive species were also examined. Current electronic database records reviewed included the following:

- California Natural Diversity Data Base information (CNDDB RareFind 5), which is administered by the California Department of Fish and Wildlife (CDFW), formerly known as the California Department of Fish and Game. This database covers sensitive plant and animal species, as well as sensitive natural communities that occur in California. Records from nine 7.5' U.S. Geological Society (USGS) quadrangles surrounding the project site (Chaney Ranch, Broadview Farms, Firebaugh, Coit Ranch, Levis, Monocline Ridge, Turney Hills, Chounet Ranch, and Hammonds Ranch), along with a query of records within a 5-mile radius of the project site, were obtained from this database to inform the field survey.
- California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants, which utilizes four specific categories or "lists" of sensitive plant species to assist with the conservation of rare or endangered botanical resources. All of the plants constituting California Rare Plant Ranks (CRPR) 1A, 1B, 2A, and 2B are intended to meet the status definitions of "threatened" or "endangered" in California Endangered Species Act and the California Department of Fish and Game (CDFG) Code and are considered by CNPS to be eligible for State listing. At the discretion of the CEQA Lead Agency, impacts to these species may be analyzed as such, pursuant to the CEQA Guidelines Sections 15125(c) and 15380. Plants in Rank 3 (limited information; review list), Rank 4 (limited distribution; watch list), or that are considered Locally Unusual and Significant may be analyzed under CEQA if there is sufficient information to assess potential significant impacts. Records from the nine USGS quadrangles surrounding the project site were obtained from this database to inform the field survey.
- United States Fish and Wildlife Service's (USFWS) Information for Planning and Conservation
 (IPaC) Online System, which lists all proposed, candidate, threatened, and endangered species
 managed by the Endangered Species Program of the USFWS that have the potential to occur on
 or near a particular site. This database also lists all designated critical habitats, national wildlife
 refuges, and migratory birds that could potentially be impacted by activities from a proposed
 project. An IPaC Trust Resource Report (USFWS 2021) ²was generated for the project site.

 $9/13/21 \ (P:\OPA2101-Stamoules_Pistachio\) PRODUCTS \ Technical_Studies \ Biological_Resources \ Memo, Stamoules \ EIR, Sept 9 \ 2021.docx)$

For the purposes of this report, the term "special-status species" refers to those species that are listed or proposed for listing under the CESA and/or FESA, California Fully Protected Species, plants with a CRPR of 1, 2, or 3, and California Species of Special Concern. It should be noted that "Species of Special Concern" is an administrative designation made by the CDFW and carries no formal legal protection status. However, Section 15380 of the CEQA Guidelines indicates that these species should be included in an analysis of project impacts if they can be shown to meet the criteria of sensitivity outlined therein.

U.S. Fish and Wildlife Service. 2021. IPaC Resource List, Stamoules Site. www.ecos.fws.gov/ipac/

 eBird: eBird is a real-time, online checklist program launched in 2002 by the Cornell Lab of Ornithology and National Audubon Society. It provides rich data sources for basic information on bird abundance and distribution at a variety of spatial and temporal scales. eBird occurrence records for burrowing owl (*Athene cunicularia*) from a 5-mile radius around the project site were reviewed in July 2021 (eBird 2021).³

In addition to the databases listed above, historic and current aerial imagery along with previously prepared environmental reports and land use policies related to biological resources were reviewed.

Field Survey

LSA Senior Biologist Wendy Fisher conducted a general biological survey of the project site on July 26, 2021. The entirety of the project site was surveyed on foot or car, and all biological resources observed were noted. All plants observed during the field visit were noted, along with the habitats in which they were found. Binoculars were used to scan ruderal areas, agricultural fields, trees, and ditches, both on and adjacent to the project site in search of wildlife presence or use. Suitable habitat for any species of interest or concern was duly noted, and general site conditions were photographed (Attachment A).

RESULTS

Vegetation

The vast majority of the project site was being actively farmed in cantaloupe, and harvest was occurring the day of the field survey. A rectangular area encompassing a few acres located near the intersection of West Panoche Road and South Newcome Avenue along the western boundary of the project site, was ruderal (e.g., disturbed, mostly barren) and was fenced with chain link. This highly disturbed area was not apparent from review of Google Earth historic imagery. Ongoing soil disturbance (e.g., vegetation control, agricultural activities) and the resulting competitive exclusion by invasive nonnative plants limits the potential for native flora to occur within the project site.

A total of 16 vascular plant species were identified within the project site during the July 2021 field survey (Attachment B). About a dozen Mexican fan palms (*Washingtonia filifera*) were clustered on or immediately adjacent to the project site, and two solo mulberry trees line the southern boundary. The following describes the vegetation and land cover types occurring within the project site:

Ruderal: Areas classified as ruderal consisted mostly of barren to sparsely vegetated early successional nonnative forbs. Some of the weedy or pioneering species observed in ruderal areas of the project site included: horseweed (*Erigeron bonariensis*), five-hook bassia (*Bassia hyssopifolia*), prickly lettuce (*Lactuca serriola*), and common morning glory (*Convolvulus arvense*). Ruderal areas of the project site were bounded by a temporary chain link fence. Included within the fence was a greenhouse and a borrow pit.

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³ Ebird. 2021. www.ebird.org/home

Cantaloupe Field: More than ¾ of the project site was being cultivated with cantaloupe at the time of the field survey. A few non-native annuals bordered the fields, and included prostrate amaranth (*Amaranthus blitoides*), and common purslane (*Portulaca oleracea*).

Wildlife

The ruderal and agricultural vegetation occurring on the project site is considered low quality habitat for most native wildlife species. A total of three wildlife species were observed on or near the project site during the July 2021 field survey: house finch (*Haemorhous mexicanus*), mourning dove (*Zenaida macroura*), and western kingbird (*Tyrannus verticalis*). Each of these species commonly occur in and around developed areas throughout California. No small mammal burrows were observed within ruderal areas, the agricultural fields, or immediately adjacent to the project site.

Based on field observations and the location of the project site, which is surrounded by agricultural uses and roads, there are no indications that the project site functions as a wildlife movement corridor or an important stopover point for migratory species.

Special-Status Species

Attachment C contains tables that identify special-status species known to occur, or that potentially occur in the vicinity of the project site and includes detailed information about each species' habitat and distribution, activity period, listing/status designations, and probability of occurrence within the project site boundaries. These species were compiled from the CNPS, CNDDB, and IPaC records search from a 5-mile radius around the project site and from LSA's extensive knowledge and experience in the region.

Historic anthropogenic disturbances have greatly altered the natural hydrologic regimes and have either eliminated or greatly impacted the pre-settlement habitats needed to support the special-status plant species identified in the CNDDB and CNPS queries. As such, the specific habitats, soil substrates or "micro-climates" necessary for special-status plant species to occur are absent within the boundaries of the project site. Based on site observations coupled with the habitat suitability analysis, no special-status plant species are expected to occur within the project site.

There are no known occurrences of any special-status animal species in the project site, and none were observed during the July 2021 field survey. Nonetheless, trees on or adjacent to the project site provide marginally suitable habitat for various tree nesting birds and bats. Foraging habitat is extremely limited since small mammals are virtually absent. Birds and raptors are protected while nesting under the CDFG Code and the federal Migratory Bird Treaty Act.

The evaluation of special-status species occurrence within the project site was based on a habitat suitability analysis. It did not include exhaustive surveys to determine their presence or absence but did include direct observation of on-site and off-site conditions and a review of the available recorded occurrence data from the area to conclude whether or not a particular species could be expected to occur. Based on this analysis, it is unlikely that any of the special-status plant or wildlife species listed in Attachment C occur within the project site. Significant adverse impacts to special-

status wildlife species are not anticipated with the implementation of the recommended impact avoidance measures described in further detail below.

Wetlands and Potential Jurisdictional Drainages

There are no records of wetlands or natural drainage features within the project site. Man-made agricultural ditches on the boundaries of the project site would not be considered jurisdictional. No potentially jurisdictional drainage features, wetlands, or riparian areas were observed on the project site.

Regional Habitat Conservation Plans and Local Policies

The PG&E San Joaquin Valley Operation and Maintenance (O&M) Habitat Conservation Plan (HCP) was approved in 2007 and covers portions of nine counties, including Fresno County and the City of Fresno. This HCP covers PG&E activities which occur as a result of ongoing O&M that would have an adverse impact on any of the 65 covered species and provides incidental take coverage from the USFWS and CDFW. The project site is not located within the covered area of any other HCP, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

Therefore, the project would not conflict with the provisions of the PG&E HCP and the proposed project and would have no impact.

IMPACT FINDINGS

Sensitive Vegetation Communities and Critical Habitat

There is no designated or proposed critical habitat for any federally listed species within the project site. The proposed project would not result in any adverse impacts to critical habitats or sensitive natural communities. No mitigation is required.

Wetlands and Jurisdictional Aquatic Resources

The proposed project would not impact any jurisdictional wetlands, riparian areas, or drainage features. No mitigation is required.

Special-Status Species

No special-status plant species are expected to occur within the project site or to be adversely affected by the proposed project.

While no special-status animal species (or signs of such species) were observed on-site during the July 2021 survey, over a dozen mature palm and mulberry trees occur on or immediately adjacent to the project site. These trees provide suitable nesting habitat for a variety of birds, including Loggerhead shrike (*Lanius Iudovicianus*). Potentially significant direct and indirect impacts, including mortality, harassment, or other forms of incidental take, could occur if construction-related damage or removal of these trees occurs during phased construction disturbance results. Implementation of Mitigation Measure BIO-1 (see below) is recommended to address potential impacts on tree nesting birds.

No other special-status species were determined to have a moderate or high probability of occurrence on the project site (refer to Attachment C). The removal of the ruderal habitat documented on the project site is not anticipated to substantially impact the population sizes of any special-status animal species given the context and setting of the project site and additional habitats for such species in the project vicinity.

Nesting Birds

The project site and immediate vicinity contain trees that provide suitable nesting habitat for a variety of native and migratory bird species, potentially including red-shouldered hawk (*Buteo lineatus*), red-tailed hawk (*Buteo jamaicensis*), or great horned owl (*Bublo virginianus*). Groundnesting birds such as the killdeer (*Charadrius vociferus*) and western meadowlark (*Sturnella neglecta*) could possibly us the barren ruderal areas or agricultural road shoulders for nesting. Breeding-season disturbance that causes nest abandonment and/or loss of reproductive effort is considered a form of "take" by CDFW. To ensure compliance with the Federal Migratory Bird Treaty Act and CDFG Code Sections 3500–3516, pre-construction nesting bird surveys are recommended to occur prior to any ground disturbance or construction activities planned to occur during the nesting bird season (February 1 through September 30).

If unmitigated or not avoided, these potential direct and indirect impacts to nesting birds could be considered potentially significant. However, implementation of Mitigation Measure BIO-2, included below, would avoid, minimize, or mitigate any potential impacts to nesting birds to less-than-significant levels.

Roosting Bats

Section 2000 and 4150 of the CDFG Code states that it unlawful to take or possess a number of species, including bats, without a license or permit as required by Section 3007. Additionally, Title 14 of the California Code of Regulations states it is unlawful to harass, herd, or drive a number of species, including bats. To harass is defined as "an intentional act which disrupts an animal's normal behavior patterns, which includes, but is not limited to, breeding, feeding or sheltering".

Should removal of mature trees be required, the proposed project could result in mortality of native bats that may be roosting within, possibly including the special-status pallid bat (*Antrozous pallidus*) and Townsends's big-eared bat (*Corynorhinum townsendii*). If unmitigated or not avoided, these potential direct and indirect impacts to roosting bats could be considered potentially significant. However, implementation of Mitigation Measure BIO-2, included below, would avoid, minimize, or mitigate any potential impacts to bat species to less-than-significant levels.

Wildlife Movement

The project is surrounded by agriculture, existing residential developments, roads, and other anthropogenic land uses. The wildlife species that occur in the project vicinity are adapted to the urban-wildland interface. The noise, vibration, light, dust, or human disturbance within construction areas would only temporarily deter wildlife from using areas in the immediate vicinity of construction activities. These indirect effects could temporarily alter migration behaviors, territories, or foraging habitats in select areas. However, because these are temporary effects, it is likely that

wildlife already living and moving in close proximity to urban development would alter their normal functions for the duration of the project construction and then re-establish these functions once all temporary construction effects have been removed. The proposed project would not place any permanent barriers within any known wildlife movement corridors or interfere with habitat connectivity. No adverse effects on wildlife movement are anticipated, and no mitigation is required.

RECOMMENDED AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

The following measures are recommended to be implemented to avoid or minimize impacts to nesting birds.

Mitigation Measure BIO-1

Nesting Bird Surveys and Active Nest Avoidance. Any initial ground disturbance or tree pruning or removal should take place outside of the active nesting bird season (i.e., February 1–September 30), when feasible, to avoid impacts to nesting birds protected under the California Fish and Game Code and Migratory Bird Treaty Act. Should phased construction require tree removal or initial ground disturbance to ruderal areas, a qualified biologist shall conduct a nesting bird survey no more than 15 days prior to each phase of clearing activities. If nesting birds are discovered during preconstruction surveys, the biologist shall identify an appropriate buffer where no clearing, grading, or construction activities with potential to have direct or indirect impacts on the nesting bird(s) are allowed to take place until after the nest is no longer active (e.g., the young birds have fledged), or as otherwise determined by the qualified biologist.

Mitigation Measure BIO-2

Surveys for Roosting Bats and Avoidance of Bat Roosts. Any tree pruning or removal could disturb roosting bats, should they be present in any of the trees located within or immediately adjacent to the project site. To avoid potential impact to maternity bat roosts, pruning or removal of mater trees should occur outside of the period between April 1 and September 30, if feasible. If pruning or removal of mature trees is to occur between April 1 and September 30, a preconstruction survey within 30 days of construction should be completed in search of day-roosting bats, dead carcasses, fecal matter, staining of guano. If no evidence is found, tree pruning or removal can commence without harm to bats. Should the preconstruction survey show evidence of nonbreeding day-roosts for bats, the bats can be humanely evicted via two-stage removal of trees, under the direction of a qualified biologist to ensure that no harm or "take" of any bats occurs. If a maternity colony id detected, the biologist shall identify an appropriate buffer (50-100 feet) where no clearing, grading, or construction activities with potential to have direct or indirect

impacts on the roosting bat(s) are allowed to take place. Construction activities, including tree pruning or removal, can commence once the roost is deemed no longer active by the qualified biologist

CONCLUSION

The project site is strictly upland in nature with highly manipulated agricultural fields or disturbed bare ground with minimal ruderal weedy vegetation. Based on field observations coupled with the habitat suitability analysis conducted for this assessment, the proposed project has low to moderate potential to impact one regionally occurring special-status wildlife species. The proposed project is not anticipated to impact any special-status plant species, natural communities, or other habitats of concern. With implementation of the recommended avoidance, minimization, and mitigation measures, no significant impacts on biological resources are anticipated.

If you have any questions regarding this letter report, please contact me at (559)490-1221.

Sincerely,

LSA Associates, Inc.

Windy C. Fisher

Wendy C. Fisher Senior Biologist

Attachment: Attachment A: Representative Site Photographs

Attachment B: Vascular Plant Species Observed Attachment C: Summary of Special-Status Species



ATTACHMENT A

REPRESENTATIVE SITE PHOTOGRAPHS



Photograph #1 (above). Cantoupes were actively being harvested on the western three quarters of the site during the July 2021 field visit. Photograph #2 (below). The eastern third of the site was mostly barren with a single borrow pit located in the center of the ruderal area.





Photograph #3 (above). Irrigation ditches line the agricultural field and ruderal areas of the project site. Photograph #4 (below). Two solitary mulberry trees were identified along the sites southern boundary.





Photographs #5 (above) and #6 (below). Within agriculture and ruderal land uses, ag equipment storage and beekeeping were evident within the project site.





ATTACHMENT B

VASCULAR PLANT SPECIES OBSERVED

Plant Species Observed at the Stamoules Pistachio Site, July 26, 2021*

Family	Species Name	Common Name	
DICOTS		-	
Amaranthaceae	Amaranthus blitoides	prostrate amaranth	
Asteraceae	Erigeron bonariensis	hairy fleabane	
	Lactuca serriola	prickly lettuce	
	Sonchus asper ssp. asper	prickly sow thistle	
Chenopodiaceae	Bassia hyssopifolia	five hook Bassia	
	Chenopodium album	white goosefoot	
	Salsola tragus	Russian thistle	
Convolvulaceae	Convolvulus arvensis	common morning-glory	
Cucurbitaceae	Cucurmis melo	Cultivated cantaloupe	
Moraceae	Morus alba	white mulberry	
Portulacaceae	Portulaca oleracea	common purslane	
Solanaceae	Solanum sp.	nightshade	
Tribulaceae	Tribulus terrestris	puncture vine	
MONOCOTS		1	
Palmae	Washingtonia filifera	Mexican fan palm	
Poaceae	Echinochloa crus-galli	barnyard grass	
	Leptochloa fascicularis	wild oats	



ATTACHMENT C

SUMMARY OF SPECIAL-STATUS SPECIES



Table C-1: Special-Status Plant Species Potentially Occurring in the Project Vicinity

Common Name	Scientific Name	Status	General Habitat Description	Flowering Period	Likelihood of Occurrence and Rationale
San Benito Onion	Allium howellii var. sanbenitense	US: – CA: – CNPS 1B.3	Occurs in openings in often on steep slopes of clay soils in chaparral, valley and foothill grassland between 1,280 -4,170 ft in elevation.	March - June	Not expected. Although clay soils are present, the highly disturbed site does not support suitable habitat for this species.
Heartscale	Atriplex cordulata var.cordulata	US: – CA: – CNPS: 1B.2	Annual herb occurring in chenopod scrub, meadows, seeps and valley/foothill grasslands (sandy) in saline or alkaline soil between 0 and 1,837 ft in elevation. Found in the Central Valley counties.	April- October	Not expected. Saline-alkaline soils are absent. The highly disturbed site does not support suitable habitat for this species.
Lost Hills crownscale	Atriplex coronata var. vallicola	US: – CA: –	Occurs in powdery, alkaline soils that are vernally moist in chenopod scrub, valley and foothill grassland, and vernal pools. Associated species are <i>Frankenia</i> , <i>Atriplex</i> ss; and <i>Distichlis</i> between 150 – 2,900 ft. in elevation.	April - August	Not expected. Suitable habitat is absent from the project site for this species. None of the associated species are present.
Lesser Saltscale	Atriplex minuscula	US: – CA: – CNPS 1B.1	Occurs in upland playas of shadscale scrub, alkali sink and valley grasslands in California's Central valley between Kern County and Contra Costa County at less than 328 ft. in elevation.	April - October	Not expected. The highly disturbed site does not support suitable habitat for this species.
Subtle Orache	Atriplex subtilis	US: – CA: – CNPS 1B.2	Occurs in saline depressions between Kern County and Stanislaus Counties in California's central valley less than 230 ft. in elevation.	June - October	Not expected. The highly disturbed site does not support suitable habitat for this species.
Hall's Tarplant	Deinandra halliana	US: – CA: – CNPS: 1B.2	Occurs in open slopes and sink edges of shadscale scrub, foothill woodland, and valley grassland on the far west side of the Central Valley and in the inner coast range of San Luis Obispo Counties though Monterey Counties between 984 – 3280 ft. in elevation.	April - May	Not expected. The highly disturbed site does not support suitable habitat for this species.
Recurved Larkspur	Delphinium recurvatum	US: – CA: – CNPS: 1B.2	Occurs in shadscale scrub, foothill woodland, and valley grassland with wide range of elevations between Los Angeles to Butte Counties.	March – June	Not expected. The highly disturbed site does not support suitable habitat for this species.



Table C-1: Special-Status Plant Species Potentially Occurring in the Project Vicinity

Common Name	Scientific Name	Status	General Habitat Description	Flowering Period	Likelihood of Occurrence and Rationale
Spiny-sepaled button-celery	Eryngium spinosepalum	US: – CA: – CNPS: 1B.2	Annual/perennial herb occurring in valley/foothill grasslands and vernal pools between 262 and 3,198 ft in elevation. Found in Central Coast and Central Valley counties.	April- June	Not expected. The highly disturbed site does not support suitable habitat for this species
Alkali-sink goldfields	Lasthenia chrysantha	US: – CA: – CNPS: 1B.1	Annual herb occurring in alkaline vernal pools between 0 and 656 ft in elevation. Found in Central Valley counties.	February- June	Not expected. The highly disturbed site does not support suitable habitat for this species.
Pale-yellow Layia	Layia heterotricha	US: – CA: – CNPS: 1B.1	Annual herb occurring in wetland-riparian, shadscale scrub and valley grassland between Ventura and Fresno Counties at elevation.	March - June	Not expected. The highly disturbed site does not support suitable habitat for this species
Munz's Tidy-Tips	Layia munzii	US: – CA: – CNPS: 1B.2	Annual occurring in alkaline clay soils of the southern San Joaquin Valley between 540-2,625 ft. in elevation.	March - April	Not expected. The highly disturbed site does not support suitable habitat for this species.
Panoche Peppergrass	Lepidium jaredii ssp. album	US: – CA: – CNPS: 1B.2	Annual occurring in alkali bottoms, slopes, washes, dry hillsides, vertic clay, acidic and/or gypsoferus soils in the southwestern San Joaquin Valley and southeastern inner coast range between 1,640 – 2,300 ft. in elevation.	March - April	Not expected. The highly disturbed site does not support suitable habitat for this species.
Showy Golden Madia	Madia radiata	US: – CA: – CNPS: 1B.1	Annual occurring in grassy or open slopes of vertic clay and rarely serpentinite soils between 65 -3,900 ft. in elevation.	March - May	Not expected. The highly disturbed site does not support suitable habitat for this species
San Joaquin Wooly Threads	Monolopia congdonii	US: –E CA: – CNPS: 1B.2	Annual occurring in grassland and sandy soils in the southern San Joaquin Valley between 295-2,3000 ft. in elevation.	February - May	Not expected. The highly disturbed site does not support suitable habitat for this species. There are no known historical records of occurrence in the project vicinity and suitable habitat is absent within the project site.
Panoche navarretia	Navarretia panochensis	US: CA: – CNPS: 1B.3	Annual herb newly rediscovered from eastern Fresno and western San Benito Counties.	April - June	Not expected. The highly disturbed site does not support suitable habitat for this species.
Sanford's arrowhead	Sagittaria sanfordii	US: – CA: – CNPS: 1B.2	Perennial rhizomatous herb (emergent) occurring in marshes and swamps between 0 and 2,132 ft in elevation. Found throughout California counties.	May- October	Not expected. The highly disturbed site does not support suitable habitat for this species. The highly maintained onsite ditches were mostly barren of vegetation.



Table C-1: Special-Status Plant Species Potentially Occurring in the Project Vicinity

Common Name	Scientific Name	Status	General Habitat Description	Flowering Period	Likelihood of Occurrence and Rationale
Chaparral	Senecio aphanactis	US: -	Annual occurring in alkaline flats and dry open	January -	Not expected. The highly disturbed site does not
Ragwort		CA: -	rocky areas in central and southern California	April	support suitable habitat for this species.
		CNPS: 2B.2	coast ranges to Baja California, at elevations		
			between 32 -1,800 ft. in elevation.		

¹Project vicinity = Project site plus a 5-mile buffer

Status: Federal Endangered (FE), Federal Threatened (FT), Federal Candidate (FC), Federal Proposed (FP, FPE, FPT), Federal Delisted (FD), California Endangered (CE), California Threatened (CT), California Species of Special Concern (SSC), California Fully Protected Species (CFP), California Special Plant (CSP), California Special Animal (CSA)

California Native Plant Society Designations:

1B = Rare, threatened, or endangered in California and elsewhere

2B = Rare, threatened, or endangered in California, but not elsewhere

0.1 = seriously endangered

0.2 = fairly endangered

CA = California

CNPS = California Native Plant Society

ft = foot/feet

m = meter/meters

mi = mile/miles

US = United States



Common Name	Scientific Name	Status Listing	Habitat and Comments	Likelihood of Occurrence and Rationale
INVERTEBRATES	•			
Crotch bumble bee	Bombus crotchii	US: CA: CE	Occurs primarily in California through most of southwestern California and uncommonly in Baja California and southwest Nevada. Inhabits open grassland and scrub habitat, nests underground.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species.
Vernal pool fairy shrimp	Branchinecta lynchi	US: FT CA: –	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.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species.
AMPHIBIANS				
Northern California legless lizard	Anniella pulchra	US: CA: SSC	Endemic from the west central California including parts of the central valley and coast range from sea level to around 5,900 ft. in elevation. Occurs in moist warm loose soil with vegetative cover and moisture.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species
Foothill yellow-legged frog	Rana boylii	US: – CA: CE	Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species
California red-legged frog	Rana draytonii	US: FT CA: SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species
Western spadefoot	Spea hammondii	US: – CA: SSC	Occurs primarily in grassland and other relatively open habitats. Found in elevations ranging from sea level to 4,500 ft. Requires temporary pools for breeding.	Not expected. Suitable scrub habitats are absent from the project and vicinity.
REPTILES				
California glossy snake	Arizpna elegans occidentalis	US: – CA: SSC	This nocturnal snake in habits arid scrub, rocky washes, grasslands and chapparal from the eastern part of the San Francisco Bay area south to the northwestern Baja California; absent along the central coast.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species.
Western pond turtle	Emys marmorata	US: – CA: SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Not expected. There is one known record of occurrence in the project vicinity (CNDDB 2001) and suitable habitat is absent from the project site.



Common Name	Scientific Name	Status Listing	Habitat and Comments	Likelihood of Occurrence and Rationale
Blunt-nosed leopard lizard	Gambelia sila	US: FE CA: CE	Occurs in open sparsely vegetated areas along sandy washes in the San Joaquin Valley and adjacent foothills, as well as Carrizo Plain and Cuyama Valley. Use small rodent borrows for cover and breeding.	Not expected. There are no known historical records of occurrence in the project vicinity ¹ . The disturbed land uses on the project site offer no suitable habitat for this species.
San Joaquin coachwhip	Masticophis flagellum ruddocki	US: – CA: SSC	Occurs in open, dry, treeless areas with little or no cover, including valley grassland and saltbush scrub habitat. Takes refuge in rodent burrows, shaded vegetation and surface objects. Endemic to California, ranges from the Sacramento Valley south to the grapevine in Kern County into the inner south coast ranges.	Not expected. There is one known record of occurrence in the project vicinity (CNDDB 2001) and suitable habitat is absent from the project site.
Coast horned lizard	Phyrnosoma blainvillii	US: – CA: SSC	Inhabits open areas of sandy soil and low vegetation in valleys, foothills and semiarid mountains. Fragmented distribution from Baja California west to the deserts and the Sierra Nevada, north to the Bay Area, and inland as far north as Shasta Reservoir.	Not expected. There are no known historical records of occurrence in the project vicinity ¹ . The disturbed land uses on the project site offer no suitable habitat for this species.
Giant Garter Snake	Thamnophis gigas	US: FT CA: CT	Aquatic snake found in marshes, shoughs, drainage canals, and irrigation ditches from Glenn County to the southern edge of the San Francisco Bay Delta, and from Merced County to northern Fresno County. Absent from 98% of it former range in San Joaquin Valley.	Not expected. There are no known historical records of occurrence in the project vicinity ¹ . The disturbed land uses on the project site offer no suitable habitat for this species
BIRDS				
Tricolored blackbird	Agelalus tricolor	US: – CA: CT	Occurs in open country or marshes in large colonies mainly in CA Central Valley. Breeds in freshwater marshes with tall emergent vegetation, feeds on insects.	Not expected. Suitable colonial nesting habitat and foraging habitat are absent from the project site.
Short-eared owl	Asio flammeus	US: – CA: SSC	Occurs in large open areas with low vegetation, and nest in dry areas on the ground surface amid grasses and low plants. The site in in the southern portion of its breeding range. The range, extends across North America.	Not expected. Suitable nesting habitat is extremely marginal on the project site. Foraging habitat is absent since no small mammal burrows were found.
Burrowing owl	Athene cunicularia	US: – CA: SSC	Burrows in 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.	Not expected. Suitable nesting habitat is absent since no small mammal burrows were found on or immediately adjacent to the site.
Golden eagle	Aquila chrysaetos	US: – CA: 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. Suitable nesting habitat is extremely marginal on the project site. Foraging habitat is absent since no small mammal burrows were found.



Common Name	Scientific Name	Status Listing	Habitat and Comments	Likelihood of Occurrence and Rationale
Swainson's hawk	Buteo swainsoni	US: – CA: CT	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannas, and agricultural/ranch lands. Requires adjacent suitable foraging areas such as grasslands, alfalfa, or grain fields supporting rodent populations.	Not expected. Suitable nesting and foraging habitat is absent from the project site. Foraging habitat is limited to absent; Small mammal burrows were absent.
California condor	Gymnogyps californianus	US: FE CA:	Nest in caves on cliff faces in mountains up to 6,000 feet in elevation in Central California, northern Baja, and great basin area.	Not expected. Suitable nesting and foraging habitat is absent from the project site. Foraging habitat is limited to absent. Small mammal burrows were absent.
MAMMALS				
Nelson's antelope squirrel	Ammospermophilus nelsoni	US: CA: CT	This ground-dwelling squirrel occurs on the floor of the San Joaquin Valley to around 3,600 feet in elevation of the Temblor Mountains, centered around Lokern and Elk Hills in western Kern County and in the Carrizo and Elkhorn Plains in eastern San Luis Obispo County.	Not expected. Suitable breeding and foraging habitat are absent from the project site and adjacent lands. An historical occurrence from 1920 was from 4 miles north to northwest of the project site
Pallid bat	Antrozous pallidus	US: – CA: SSC	Found in arid and semi-arid regions across much of the American west, the pallid bat can be found in rocky outcroppings to open sparsely vegetated grassland and roost in small colonies in buildings, caves and cracks in rocks.	Not expected. Suitable colonial roosting habitat and foraging habitat are absent from the project site.
Fresno kangaroo rat	Dipodomys nitratoides exisil	US: -FE CA:SE	Adapted to survival in an arid environment, Fresno kangaroo rats breed in relatively light sandy soils of in alkali sink communities. Currently there are no known populations within its historical range in Merced, Madera, and Fresno Counties. Critical habitat for this species occurs approximately 14 miles west of the site.	Not expected. Suitable breeding and foraging habitat are absent from the project site and adjacent lands.
Giant Kangaroo rat	Dipodomys ingens	US: –FE CA: SE	Inhabits most arid, southeastern edge of central California San Joaquin Valley and adjacent valley and plateaus of the Inner Coast Range at elevations ranging between 90-885 meters.	Not expected. There are no known historical records of occurrence in the project vicinity ¹ . The disturbed land uses on the project site offer no suitable habitat for this species.
Western Mastiff bat	Eumops perotic californicus	US: – CA: SSC	This large free-tailed cliff-dwelling bat occur most frequently in broad open areas in a variety of habitats, from dry desert washes, flood plains, chaparral, oak woodland, forest, grassland meadows and agricultural areas.	Not expected. Suitable roosting habitat is absent. Foraging habitat is extremely limited due to the disturbed nature of the site.
Western red bat	Lasiurus blossevillii	US: – CA: SSC	Roosts in riparian trees below 6,500 ft. in elevation throughout much of western north American and South America.	Moderate probability of occurrence. Onsite trees would be marginally suitable for western red bat. Foraging habitat is extremely limited due to the highly disturbed nature of the project site.



Common Name	Scientific Name	Status Listing	Habitat and Comments	Likelihood of Occurrence and Rationale
Hoary bat	Lasiurus cinereus	US: – CA: CSA	Lives in forests of the eastern U.S. and in arid deserts of the southwest, but is most abundant in forests and croplands of the Plains states and the forests of the Pacific Northwest. Hoary bats thrive in diverse forest habitat with a mixture of forest and small open areas provide edges.	Not expected. Suitable roosting habitat is absent. Foraging habitat is extremely limited due to the disturbed nature of the site. A historical occurrence from 1946 is from a1.5 mile east of the site.
San Joaquin pocket mouse	Perognathus inornatus	US: – CA: CSA	Grassland, oak savanna and arid scrubland in the southern Sacramento Valley, Salinas Valley, San Joaquin Valley and adjacent foothills, south to the Mojave Desert. Associated with fine-textured, sandy, friable soils.	Not expected. There are no known historical records of occurrence in the project vicinity. The disturbed land uses on the project site offer no suitable habitat for this species
American badger	Taxidea taxus	US: – CA: SSC	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. Suitable breeding and foraging habitats are absent from the project and adjacent lands. Small mammal burrows are absent from the project site.
San Joaquin kit fox	Vulpes macrotis mutica	US: FE CA: CT	Prefers open, level areas with loose-textured soils supporting scattered, shrubby vegetation with little human disturbance. Some agricultural areas may support these foxes.	Not expected. Suitable breeding and foraging habitats are absent from the project and adjacent lands. Small mammal burrows are absent from the project site.

¹Project vicinity = Project area plus a 5-mile buffer

Status: Federal Endangered (FE), Federal Threatened (FT), Federal Candidate (FC), Federal Proposed (FP, FPE, FPT), Federal Delisted (FD), California Endangered (CE), California Threatened (CT), California Species of Special Concern (SSC), California Fully Protected Species (CFP), California Special Animal (CSA)

CA = California

ft = foot/feet

m = meter/meters

mi = mile/miles

US = United States

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APPENDIX E

CULTURAL RESOURCES STUDY

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CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

November 4, 2021

Adam Ross, Vice President Ross and Sons 7828 South Maple Avenue Fresno, CA 93725

Subject: Cultural Resources Survey and Study for the Stamoules Pistachio Processing Facility

Project in Fresno County, California (LSA Project No. OPA2101)

Dear Mr. Ross:

LSA conducted a cultural resources survey and study (study) for the proposed Stamoules Pistachio Processing Facility Project (project) in western Fresno County, California. The proposed project includes the construction of a pistachio hulling, processing, and packing facility that can process pistachio crops from surrounding pistachio orchards. All cultural resources study work was completed per the requirements of the California Environmental Quality Act of 1970 (CEQA).

This study has the following purposes: (1) identify archaeological deposits that may meet the CEQA definition of a historical resource (California Public Resources Code [PRC] §21084.1) or a unique archaeological resource (PRC §21083.2) and that may be impacted by the proposed project, (2) assess the potential for human remains, and (3) recommend procedures for avoiding or mitigating impacts to such deposits, if warranted. The study consisted of background research and a field survey. This report was prepared by LSA Associate/Senior Cultural Resources Manager Kerrie Collison, M.A., Registered Professional Archaeologist (RPA) No. 28731436.

PROJECT LOCATION AND CHARACTERISTICS

The project site, which is also the study site, is within one parcel (Assessor's Parcel No. 019-150-64S) and is approximately 98 acres in size. The project site is currently open farm ground and is not developed. It is depicted on the United States Geological Survey (USGS) *Chaney Ranch, California* 7.5-minute topographic quadrangle map in Section 26 of Township 14 South, Range 13 East, Mount Diablo Baseline and Meridian (USGS 1971) (Attachment B, Figure 1). The project site is bounded by farm fields and Panoche Road to the south, Panoche Road and farm fields to the east, and farm fields to the north and to the west (Attachment B, Figure 2).

The project site is relatively flat and is at an elevation of 290 feet. The nearest natural water source (Panoche Creek) is approximately 3 miles northwest of the project site. Subsurface sediments of the project site consist of Quaternary marine and nonmarine alluvium, lake, playa, and terrace deposits that date to the Pleistocene and Holocene (ranging from 2.58 million years ago to the present) (California Geological Survey 2015).

BACKGROUND RESEARCH

Southern San Joaquin Valley Information Center

A records search of the project site and a 0.5-mile search radius was conducted on September 7, 2021, by staff members at the Southern San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System at California State University, Bakersfield (SSJVIC Records Search File No. 21-315). The SSJVIC, an affiliate of the California Office of Historic Preservation (OHP), is the official repository of cultural resource records and reports for Fresno County. Background research also included a review of the following State and federal inventories:

- Built Environment Resources Directory (BERD) (OHP n.d.)
- California Historical Landmarks (OHP 1996)
- California Points of Historical Interest (OHP 1992)
- California Inventory of Historic Resources (OHP 1976)

The records search results (Attachment C) indicate that no previous cultural resource studies have included the project site and one previously study (an archaeological survey) has included a portion of the area within 0.5-mile radius of the project site. No cultural resources have been previously recorded in the project site, and one cultural resource (P-10-005888, Panoche Road) has been recorded within 0.5 mile of the project site. No resources listed in the BERD are within the project site.

Native American Heritage Commission

LSA submitted a request to the Native American Heritage Commission (NAHC) to request a review of the Sacred Lands File (SLF) for the presence of Native American cultural resources that the project may impact. The NAHC maintains the SLF database and is the official State repository of Native American sacred-site location records in California.

Andrew Green, NAHC Cultural Resources Analyst, responded to the SLF search request on September 24, 2021, stating that the results were negative and that no Native American cultural resources were known in the area (Attachment D). The NAHC also provided a suggested list of Native American individuals to contact for information regarding the project site.

Aerial Photographs and Historic Maps

Additional background research included a review of aerial photographs and historic-period maps that include the project site (National Environmental Title Research, n.d.). The purpose of this review was to assess the potential for historic-period archaeological deposits in the project site. The oldest available aerial photograph that includes the project site dates to 1971, at which time the project site was undeveloped. A photograph dating to 1981 shows that the project site was used for agricultural purposes. The earliest available topographic quadrangle reviewed by LSA dates to 1922 and depicts no buildings on the project site itself but does depict Panoche Road to the south and unnamed roads within the project site. The unnamed roads do not appear on the 1956 map or any more recent maps. No maps depict any buildings within the project site.

FIELD SURVEY

On September 28, 2021, LSA Archaeologist Lennon Fanning conducted a pedestrian field survey of the project site. Approximately 25 percent of the project site was not active agricultural land; the remaining 75 percent is actively used for cultivating crops. As such, he fully surveyed the fallow agricultural land and the active agricultural land was spot-checked where possible without damaging crops. The fully surveyed portion of the project site was sparsely vegetated and had greater than 90 percent ground visibility. The site is void of crops and is about 1 to 2 feet lower in elevation than the surrounding lands. Mr. Fanning spaced the survey transects approximately 10 meters (32.8 feet) apart and walked them in an east-west pattern.

He observed numerous types of sediments throughout the project site. Observed sediments included fine grain dirt with a mix of round and jagged stones, gravel with jagged gray stones, hard-packed brown silt with mixed stones, and fine silt. Modern trash was scattered throughout the project site. The survey identified no archaeological resources or human remains.

SUMMARY AND RECOMMENDATIONS

This study, consisting of background research and a field survey, did not identify surficial archaeological deposits or human remains in the project site. The project site and 0.5-mile radius of the project site have not been previously studied for cultural resources; however, the nearest natural water source (Panoche Creek, which would have been a food and water source for precontact and historic-period occupants of the area) is approximately 3 miles northwest of the project site. The project site has a history of surficial disturbance as a result of decades of agricultural use and no archaeological resources were identified during the field survey.

For the above reasons, it is unlikely that ground-disturbing work associated with project implementation would impact subsurface intact cultural resource deposits, and no additional cultural resource studies are recommended for this proposed project. However, there is always the potential that construction activities could uncover unanticipated subsurface cultural resources. A qualified professional archaeologist should be contacted in the event that construction personnel encounter any archaeological deposits and/or human remains during construction activities. If any such resources are discovered, contractors should stop work in the immediate area of the find and contact the archaeologist to assess the nature of the find. Upon completion of any monitoring activities, the archaeologist should prepare a report to document the methods and results of monitoring activities. This report should be submitted to the SSJVIC.

If human remains are encountered during project work, the regulatory process outlined in Health and Safety Code Section 7050.5 must be followed, which involves coordination with the NAHC and a Native American Most Likely Descendant.

Please contact me at kerrie.collison@lsa.net if you have any questions regarding this study. Thank you for using the services of LSA.

Sincerely,

LSA Associates, Inc.

Kerrie Collison, M.A., RPA 28731436

Associate/Senior Cultural Resources Manager

Attachments: A—References

B—Figures 1 and 2

C—Records Search Results

D—Sacred Lands File Search Results



ATTACHMENT A

REFERENCES

California Geological Survey

2015 Geologic Map of California. Website: https://maps.conservation.ca.gov/cgs/gmc/ (accessed October 22, 2021).

California Office of Historic Preservation (OHP)

- 1976 California Inventory of Historic Resources. California Department of Parks and Recreation, Sacramento.
- 1992 California Points of Historical Interest. California Department of Parks and Recreation, Sacramento.
- 1996 California Historical Landmarks. California Department of Parks and Recreation, Sacramento.
- n.d. Built Environment Resources Directory (BERD). Website: https://ohp.parks.ca.gov/?page_id=30338 (accessed October 22, 2021).

National Environmental Title Research

n.d. Historic Aerials. Website: http://www.historicaerials.com (accessed October 22, 2021).

United States Geological Survey (USGS)

1981 *Chaney Ranch, California* 7.5-minute topographic quadrangle. Published 1955, photorevised 1971. USGS, Denver, Colorado.

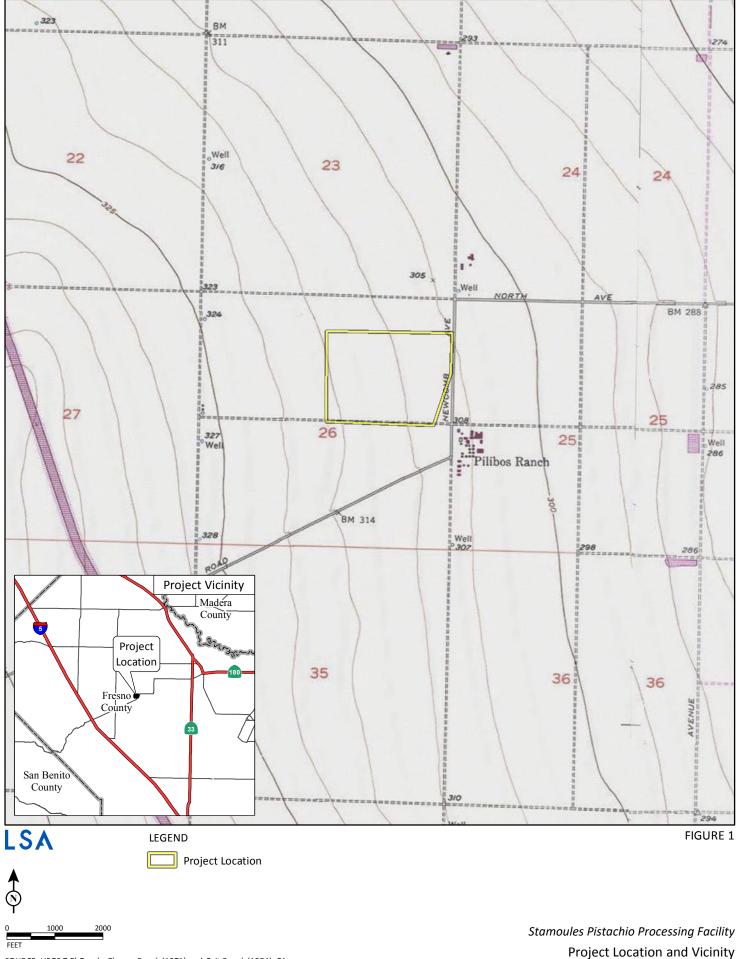


ATTACHMENT B

FIGURES 1 AND 2

Figure 1: Project Location and Vicinity

Figure 2: Project Site





LEGEND FIGURE 2

Project Site



SOURCE: Google (2020)

Stamoules Pistachio Processing Facility

Project Site

ATTACHMENT C

RECORDS SEARCH RESULTS

<u>California</u>
<u>H</u>istorical
<u>R</u>esources
<u>I</u>nformation
<u>S</u>ystem



Fresno Kern Kings Madera Tulare Southern San Joaquin Valley Information Center California State University, Bakersfield

Mail Stop: 72 DOB 9001 Stockdale Highway Bakersfield, California 93311-1022 (661) 654-2289

E-mail: ssjvic@csub.edu Website: www.csub.edu/ssjvic

9/7/2021

Kerrie Collison LSA 285 South Street, Suite P San Luis Obispo, CA 93401

Re: Stamoules Pistachio (OPA2101) Records Search File No.: 21-315

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Chaney Ranch USGS 7.5' quads. The following reflects the results of the records search for the project area and the 0.5 mile 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

Resources within project area:	None
Resources within 0.5 mile radius:	P-10-005888
Reports within project area:	None
Reports within 0.5 mile radius:	FR-02404

Resource Database Printout (list):	$oxed{\boxtimes}$ enclosed	\square not requested	\square nothing listed
Resource Database Printout (details):	oxtimes enclosed	\square not requested	\square nothing listed
Resource Digital Database Records:	\square enclosed	oxtimes not requested	\square nothing listed
Report Database Printout (list):	oxtimes enclosed	\square not requested	\square nothing listed
Report Database Printout (details):	oxtimes enclosed	\square not requested	\square nothing listed
Report Digital Database Records:	\square enclosed	oxtimes not requested	\square nothing listed
Resource Record Copies:	⊠ enclosed	\square not requested	\square nothing listed
Report Copies:	\square enclosed	⋈ not requested	\square nothing listed
OHP Built Environment Resources Directory:	☐ enclosed		☐ nothing listed
Archaeological Determinations of Eligibility:	□ enclosed	☐ not requested	⊠ nothing listed
CA Inventory of Historic Resources (1976):	□ enclosed	☐ not requested	□ nothing listed

<u>Caltrans Bridge Survey:</u> Not available at SSJVIC; please see

https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

Ethnographic Information: Not available at SSJVIC

<u>Historical Literature:</u> Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see

http://historicalmaps.arcgis.com/usgs/

<u>Local Inventories:</u> Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see

 $\underline{http://www.glorecords.blm.gov/search/default.aspx\#searchTabIndex=0\&searchByTypeIndex=1} \ and/or the action of the action of the property of the property$

http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

Shipwreck Inventory: Not available at SSJVIC; please see

https://www.slc.ca.gov/shipwrecks/

Soil Survey Maps: Not available at SSJVIC; please see

http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. 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, 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 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 record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Celeste M. Thomson Coordinator



ATTACHMENT D

SACRED LANDS FILE SEARCH RESULTS



NATIVE AMERICAN HERITAGE COMMISSION

September 24, 2021

Kerrie Collison

Via Email to: kerrie.collison@lsa.net

CHAIRPERSON **Laura Miranda** Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

SECRETARY

Merri Lopez-Keifer

Luiseño

Parliamentarian Russell Attebery Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Julie TumamaitStenslie
Chumash

COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

EXECUTIVE SECRETARY

Christina Snider

Pomo

NAHC HEADQUARTERS

1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

Re: Stamoules Pistachio (OPA2101) Project, Fresno County

Dear Ms. Collison:

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 <u>negative</u>. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. 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: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Cultural Resources Analyst

Indrew Green.

Attachment

Native American Heritage Commission Native American Contact List Fresno County 9/24/2021

Big Sandy Rancheria of Western Mono Indians

Elizabeth Kipp, Chairperson

P.O. Box 337

Auberry, CA, 93602 Phone: (559) 374 - 0066 Fax: (559) 374-0055

Western Mono

Mono

Mono

Foothill Yokut

Foothill Yokut

Mono

North Valley Yokuts Tribe

Timothy Perez. P.O. Box 717 Costanoan Linden, CA, 95236 Northern Valley Phone: (209) 662 - 2788 Yokut

huskanam@gmail.com

Santa Rosa Rancheria Tachi Yokut Tribe

Leo Sisco, Chairperson

P.O. Box 8

Lemoore, CA, 93245

Phone: (559) 924 - 1278 Fax: (559) 924-3583

Southern Valley

Yokut

Table Mountain Rancheria

Brenda Lavell, Chairperson

P.O. Box 410 Friant, CA, 93626 Phone: (559) 822 - 2587 Fax: (559) 822-2693

Yokut

rpennell@tmr.org

Table Mountain Rancheria

Bob Pennell, Cultural Resource

Director P.O. Box 410 Friant, CA, 93626

Phone: (559) 325 - 0351 Fax: (559) 325-0394

Yokut

Foothill Yokut

rpennell@tmr.org

Traditional Choinumni Tribe

David Alvarez, Chairperson 2415 E. Houston Avenue

Fresno, CA, 93720 Phone: (559) 217 - 0396 Fax: (559) 292-5057

davealvarez@sbcglobal.net

Tule River Indian Tribe

Joey Garfield, Tribal Archaeologist P. O. Box 589 Yokut

Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932 joey.garfield@tulerivertribe-

nsn.gov

Cold Springs Rancheria of Mono Indians

Carol Bill, Chairperson P.O. Box 209

lkipp@bsrnation.com

Tollhouse, CA, 93667 Phone: (559) 855 - 5043 Fax: (559) 855-4445 coldsprgstribe@netptc.net

Cold Springs Rancheria of

Mono Indians Jared Aldern, P. O. Box 209

Tollhouse, CA, 93667 Phone: (559) 855 - 5043 Fax: (559) 855-4445

csrepa@netptc.net

Dumna Wo-Wah Tribal Government

Robert Ledger, Chairperson 2191 West Pico Ave.

Fresno, CA, 93705

Phone: (559) 540 - 6346 ledgerrobert@ymail.com

Kings River Choinumni Farm **Tribe**

Stan Alec,

3515 East Fedora Avenue

Fresno, CA, 93726 Phone: (559) 647 - 3227

North Valley Yokuts Tribe

Katherine Perez, Chairperson P.O. Box 717

Linden, CA, 95236 Phone: (209) 887 - 3415

canutes@verizon.net

Costanoan Northern Valley

Yokut

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 Stamoules Pistachio (OPA2101) Project, Fresno County.

Native American Heritage Commission Native American Contact List Fresno County 9/24/2021

Tule River Indian Tribe

Kerri Vera, Environmental Department P. O. Box 589

Yokut

Porterville, CA, 93258 Phone: (559) 783 - 8892 Fax: (559) 783-8932

kerri.vera@tulerivertribe-nsn.gov

Tule River Indian Tribe

Neil Peyron, Chairperson P.O. Box 589

Yokut

Porterville, CA, 93258 Phone: (559) 781 - 4271 Fax: (559) 781-4610

neil.peyron@tulerivertribe-nsn.gov

Wuksache Indian Tribe/Eshom Valley Band

Kenneth Woodrow, Chairperson

1179 Rock Haven Ct. Foothill Yokut Salinas, CA, 93906 Mono

Phone: (831) 443 - 9702 kwood8934@aol.com

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 Resource Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Stamoules Pistachio (OPA2101) Project, Fresno County.

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APPENDIX F

AB 52 CONSULTATION INVITATION AND RESPONSE LETTERS

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DEPARTMENT OF PUBLIC WORKS AND PLANNING STEVEN E. WHITE, DIRECTOR

September 17, 2021

CERTIFIED MAIL

Santa Rosa Rancheria Tachi Yokut Tribe Attn: Ruben Barrios, Tribal Chairman c/o Cultural Department PO Box 8 Lemoore, CA 93245

Dear Mr. Barrios:

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto,

2014). Formal Notification of determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to

Public Resources Code § 21080.3.1 (hereafter PRC).

The County of Fresno has determined that a project application is complete for Environmental Impact Report No. 8077, Conditional Use Permit (CUP) Application No. 3709, and Variance Application No. 4112.

The proposed use requires approval of a Conditional Use Permit (CUP) and a Variance Application No. 4112. Under California state law, the project is subject to the California Environmental Quality Act (CEQA), and the County may have to prepare an environmental document consisting of an Environmental Impact Report.

A copy of the agency routing package prepared for the subject proposal is enclosed with this letter which includes the project description and a map showing the project location. The point of contact for this project is given below.

Pursuant to PRC § 21080.3.1 (b), you have 30 days from the receipt of this letter to request consultation, in writing, with the County of Fresno.

You may contact me at eahmad@co.fresno.ca.us or (559) 600-4204 should you have any questions regarding this letter.

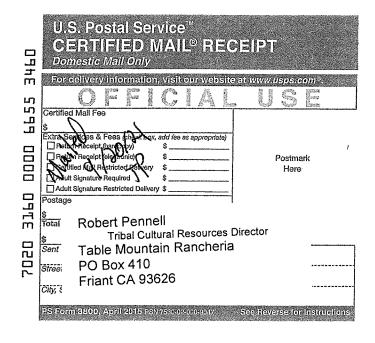
Sincerely.

Ejaz Ahmad, Planner

Development Services and Capital Projects Division

EA:

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■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Ruben Barrios, Tribal Chairman Santa Rosa Rancheria Tachi Yokut Tribe Cultural Department PO Box 8 Lemoore CA 93245	A. Signature X. A. Signature X. A. Signature X. A. Signature X. A. Agent Addressee B. Received by (Printed Name) C. Date of Delivery C. 72 2 D. Is delivery address different from item 1? If YES, enter delivery address below: No			
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DEPARTMENT OF PUBLIC WORKS AND PLANNING STEVEN E. WHITE, DIRECTOR

September 17, 2021

CERTIFIED MAIL

Picayune Rancheria of the Chukchansi Indians Heather Airey - Cultural Resources Director PO Box 2226 Oakhurst, CA 93644

Dear Ms. Airey:

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto,

2014). Formal Notification of determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to

Public Resources Code § 21080.3.1 (hereafter PRC).

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Sincerely,

Ejaz Ahmad, Planner

Development Services and Capital Projects Division

EA:

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DEPARTMENT OF PUBLIC WORKS AND PLANNING STEVEN E. WHITE, DIRECTOR

September 17, 2021

CERTIFIED MAIL

Table Mountain Rancheria Attn: Robert Pennell, Tribal Cultural Resources Director PO Box 410 Friant, CA 93626

Dear Mr. Pennell:

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52

(Gatto, 2014). Formal Notification of determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to Public Resources Code § 21080.3.1 (hereafter PRC).

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You may contact me at eahmad@co.fresno.ca.us or (559) 600-4204 should you have any questions regarding this letter.

Sincerely

Ejaz Ahmad, Planner

Development Services and Capital Projects Division

EA:

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1. Article Addressed to:	D. Is delivery address different from item 1? Yes
Robert Pennell Tribal Cultural Resources Director Table Mountain Rancheria PO Box 410 Friant CA 93626	If YES, enter delivery address below:
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DEPARTMENT OF PUBLIC WORKS AND PLANNING STEVEN E. WHITE, DIRECTOR

September 17, 2021

CERTIFIED MAIL

Dumna Wo Wah Government Attn: Robert Ledger, Tribal Chairman 2191 W. Pico Fresno, CA 93705

Dear Mr. Ledger:

Subject: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto,

2014). Formal Notification of determination that a Project Application is Complete or Decision to Undertake a Project, and Notification of Consultation Opportunity, pursuant to

Public Resources Code § 21080.3.1 (hereafter PRC).

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You may contact me at eahmad@co.fresno.ca.us or (559) 600-4204 should you have any questions regarding this letter.

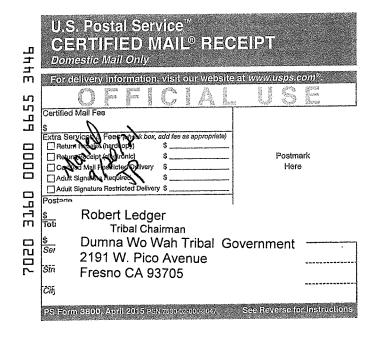
Sincerely

Ejaz Ahmad, Planner

Development Services and Capital Projects Division

EA:

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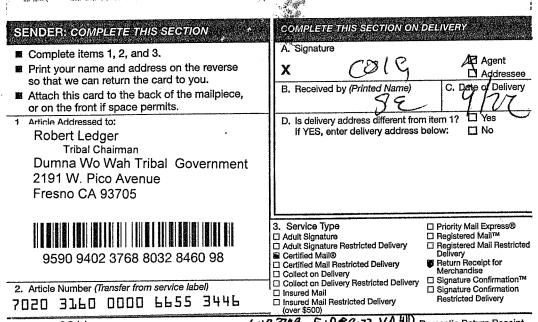




TABLE MOUNTAIN RANCHERIA CULTURAL RESOURCES DEPARTMENT

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October 5, 2021

Brenda D. LavellTribal Chairperson

Beverly J. Hunter

Tribal Vice-Chairperson

Jenna Gosselaar Tribal Secretary/Treasurer

Richard L. Jones
Tribal Council Member-At-Large

Michelle Heredia-Cordova

Tribal Council Member-At-Large

"Preserving our past, Protecting our future"

Robert Pennell
Cultural Resources
Department
Director

Office (559) 325-0351 Fax (559) 325-0394

23736 Sky Harbour Road

P.O. Box 410

Friant, California 93626

Office (559) 316-6330

Fax (559) 822-6340

Ejaz Ahmad, Planner County of Fresno, Development Services And Capital Projects Division Fresno, Ca. 93721

RE: Environmental Impact Report No. 8077, Conditional Use Permit Application No. 3709 and Variance Application No. 4112

Dear: Ejaz Ahmad

Table Mountain Rancheria is responding to your letter dated, September 17, 2021, regarding, Environmental Impact Report No. 8077, Conditional Use Permit Application No. 3709 and Variance Application No. 4112. Thank you for notifying Table Mountain Rancheria of the potential development and request for consultation. The Rancheria is very interested in this project as it lies within our cultural area of interest.

If you have already conducted a record search, please provide Table Mountain Rancheria with copies of any cultural resource report you may have.

At this time, please contact our office at (559) 325-0351 or repennell@tmr.org to coordinate a discussion and meeting date regarding your project.

Sincerely,

Robert Pennell

Tribal Cultural Resources Director

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