#### **AGENDA**

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

## NORTON REGIONAL EVENT CENTER 1601 EAST THIRD STREET, SAN BERNARDINO

#### **REGULAR MEETING OF DECEMBER 5, 2018**

#### 9:00 A.M. - CALL TO ORDER - FLAG SALUTE

**ANNOUNCEMENT:** Anyone present at the hearing who is involved with any of the changes of organization to be considered and who has made a contribution of more than \$250 in the past twelve (12) months to any member of the Commission will be asked to state for the record the Commission member to whom the contribution has been made and the matter of consideration with which they are involved.

 Presentation of Resolution of Appreciation to Diane Williams for her 26 Years of LAFCO Service

#### **CONSENT ITEMS:**

The following consent items are expected to be routine and non-controversial and will be acted upon by the Commission at one time without discussion, unless a request has been received prior to the hearing to discuss the matter

- 2. Approval of Minutes for Regular Meeting of October 17, 2018
- 3. Approval of Executive Officer's Expense Report
- 4. Ratify Payments as Reconciled and Note Cash Receipts for Months of September and October 2018
- 5. Approval of Letter of Support for the California WaterFix
- 6. Consideration of: (1) CEQA Statutory Exemption for LAFCO SC#433; and (2) LAFCO SC#433 City of Redlands OSC 18-01, Out-of-Agency Service Agreement for Water Service (APNs 0302-152-09 & 0302-152-15)
- 7. Consent Items Deferred for Discussion

#### **PUBLIC HEARING ITEMS:**

 Consideration of: (1) Review of the Addendum to the Environmental Impact Report (SCH# 2008091077) Prepared by the Town of Apple Valley for the Apple Valley 2009 General Plan and Annexation 2008-001, as CEQA Responsible Agency for LAFCO 3229; and (2) LAFCO 3229 -- Reorganization to include Annexation to the Town of Apple Valley and Detachment from County Service Area 70

#### **INFORMATION ITEMS:**

#### Legislative Update Report

#### 10. Executive Officer's Oral Report

#### 11. Commissioner Comments

(This is an opportunity for Commissioners to comment on issues not listed on the agenda, provided that the subject matter is within the jurisdiction of the Commission and that no action may be taken on off-agenda items unless authorized by law.)

#### 12. Comments from the Public

(By Commission policy, the public comment period is limited to five minutes per person for comments related to other items under the jurisdiction of LAFCO not on the agenda.)

The Commission may adjourn for lunch from 12:00 to 1:30 p.m. The Commission may take action on any item listed in this Agenda whether or not it is listed for Action. In its deliberations, the Commission may make appropriate changes incidental to the above-listed proposals.

Materials related to an item on this Agenda submitted to the Commission or prepared after distribution of the agenda packet will be available for public inspection in the LAFCO office at 1170 West Third Street, Unit 150, San Bernardino, during normal business hours, on the LAFCO website at <a href="https://www.sbclafco.org">www.sbclafco.org</a>, and at the hearing.

Current law and Commission policy require the publishing of staff reports prior to the public hearing. These reports contain technical findings, comments, and recommendations of staff. The staff recommendation may be accepted or rejected by the Commission after its own analysis and consideration of public testimony.

IF YOU CHALLENGE ANY DECISION REGARDING ANY OF THE ABOVE PROPOSALS IN COURT, YOU MAY BE LIMITED TO RAISING ONLY THOSE ISSUES YOU OR SOMEONE ELSE RAISED DURING THE PUBLIC TESTIMONY PERIOD REGARDING THAT PROPOSAL OR IN WRITTEN CORRESPONDENCE DELIVERED TO THE LOCAL AGENCY FORMATION COMMISSION AT, OR PRIOR TO, THE PUBLIC HEARING.

The Political Reform Act requires the disclosure of expenditures for political purposes related to a change of organization or reorganization proposal which has been submitted to the Commission, and contributions in support of or in opposition to such measures, shall be disclosed and reported to the same extent and subject to the same requirements as provided for local initiative measures presented to the electorate (Government Code Section 56700.1). Questions regarding this should be directed to the Fair Political Practices Commission at <a href="https://www.fppc.ca.gov">www.fppc.ca.gov</a> or at 1-866-ASK-FPPC (1-866-275-3772).

A person with a disability may contact the LAFCO office at (909) 388-0480 at least 72-hours before the scheduled meeting to request receipt of an agenda in an alternative format or to request disability-related accommodations, including auxiliary aids or services, in order to participate in the public meeting. Later requests will be accommodated to the extent feasible.

11/26/18

# DRAFT - ACTION MINUTES OF THE LOCAL AGENCY FORMATION COMMISSION HEARING OF OCTOBER 17, 2018

REGULAR MEETING 9:00 A.M. OCTOBER 17, 2018

PRESENT:

**COMMISSIONERS:** 

Regular Member	Alternate Member
Jim Bagley	Louisa Amis
Kimberly Cox	Steven Farrell
James Curatalo, Vice Chair	Acquanetta Warren
James Ramos, Chair	
Diane Williams	
Robert Lovingood	

STAFF: Samuel Martinez, Executive Officer

Paula de Sousa Mills, LAFCO Legal Counsel

Michael Tuerpe, Project Manager Jeffrey Lum, LAFCO Analyst

La Trici Jones, Clerk to the Commission Angerose Schell, Administrative Assistant

**ABSENT**:

**COMMISSIONERS:** 

Regular Member	Alternate Member
Larry McCallon	Janice Rutherford

### CONVENE REGULAR SESSION OF THE LOCAL AGENCY FORMATION COMMISSION – CALL TO ORDER – 9:06 A.M. – NORTON REGIONAL EVENT CENTER

Chair Ramos calls the regular session of the Local Agency Formation Commission to order and Commissioner Amis leads the flag salute.

#### ANNOUNCEMENT OF CONTRIBUTIONS

Chair Ramos requests those present who are involved with any of the changes of organization to be considered today by the Commission and have made a contribution of more than \$250 within the past 12 months to any member of the Commission to come forward and state for the record their name, the member to whom the contribution was made, and the matter of consideration with which they are involved.

There were none.

#### **CONSENT ITEMS – STAFF RECOMMENDATION APPROVED**

The following consent items are expected to be routine and non-controversial and will be acted upon by the Commission at one time without discussion, unless a request has been received prior to the hearing to discuss the matter.

- ITEM 1. Approval of Minutes for Regular Meeting of September 19, 2018
- **ITEM 2**. Approval of Executive Officer's Expense Report
- ITEM 3. Ratify Payments as Reconciled and Note Cash Receipts for Month of August
- **ITEM 4.** Consent Items Deferred for Discussion

Executive Officer Samuel Martinez states that there has been no request to pull any item on the list of consent items, however, he indicated that the minutes has been revised to reflect the inclusion of Item 1, Resolution of Appreciation for Ms. Rollings-McDonald, which was inadvertently omitted from the original version of the minutes. Therefore, the consent items now include the amended minutes.

Commissioner Cox moves approval of the staff recommendation, Second by Commissioner Lovingood. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, Ramos, and Warren. Noes: None. Abstain: None. Absent: McCallon, Williams

#### **PUBLIC HEARING ITEMS**:

Commissioner Williams attends the hearing at 9:09 A.M.

ITEM 5.

CONSIDERATION OF: (1) CEQA STATUTORY EXEMPTION FOR LAFCO

3228; AND (2) LAFCO 3228 – REORGANIZATION TO INCLUDE

ANNEXATION TO THE RUNNING SPRINGS WATER DISTRICT AND

DETACHMENT FROM THE SAN BERNARDINO COUNTY FIRE PROTECTION

DISTRICT AND ITS MOUNTAIN SERVICE ZONE – CONTINUED TO

JANUARY 2019

Project Manager Michael Tuerpe presents the staff report, a complete copy of which is on file in the LAFCO office and made a part of the record by its reference here. The item has been advertised through publication in a newspaper of general circulation within the county, *Mountain News*, as required by law.

Mr. Tuerpe states that this is a reorganization to include annexation to the Running Springs Water District and detachment from County Fire and its Mountain Service Zone. He states that the request is from a property owner to the Running Springs District to annex into its territory so they can primarily receive financial relief from paying the District's out-of-agency wastewater fees. He states that in 2013, the Commission approved an out-of-agency service contract for this property, which is a camp area. He states that in addition to wastewater, the District provides retail water, fire, ambulance and emergency medical services. He states that LAFCO

staff expanded this boundary slightly, with District concurrence, to provide for a more logical boundary to the reorganization proposal.

He states that there are some items the Commission must consider with a reorganization, the first one being boundaries. He states that there are no boundary issues with this proposal. He states that with regard to land use, there are no land use concerns related to this proposal. He states that by annexing to the District, the property will be relieved of its out-of-agency service costs and will save roughly \$6,250 a year from the out-of-agency service costs. He states that currently, the reorganization area is within the boundary of County Fire and its Mountain Service Zone, but adjacent to the Running Springs Water District. He states that there are representatives from Running Springs and County Fire present to address questions if the Commission would like to go into further details about the staffing and who is generally first on the scene, and what their agreements are. He states that there is no automatic aid agreement between the two because there is no like service for fire, however for ambulance, Running Springs Water District is the sole ambulance provider and this is through assignment by ICEMA. He states that ambulance in not affected by this proposal.

He states that there is a letter of objection attached to the staff report from County Fire to the fire component of this proposal. He states that County Fire does not object to the annexation, the wastewater or potential water functions, but it does object to the reduction of its boundary, therefore reducing the property tax revenue that would transfer from County Fire to Running Springs, which is about \$17,000 per year. He states that County Fire's reasoning is because it has the regional response concept and the letter provided outlines that rationale - a decrease in its boundary would result in decrease of revenues to County Fire and therefore would receive a decrease in service.

He states that in regard to environmental considerations, staff recommends the Commission adopt a statutory exemption for this proposal. He additionally states that should the Commission approve this proposal, it is legally uninhabited, and LAFCO staff has verified that the reorganization area possesses 100% landowner consent and no affected agency has submitted written opposition to a waiver of protest proceedings if the reorganization were to occur. Therefore, the Commission can waive the protest proceedings, He states that LAFCO staff recommends the reorganization in its entirety.

Chair Ramos asks if there are any questions or comments from the Commission.

Commissioner Farrell asks if there was notification to neighboring owners.

Mr. Tuerpe states that pursuant to state law, surrounding landowners and registered voters were notified. Executive Officer Samuel Martinez states that there were 129 landowners and 70 registered voters that were notified

Commissioner Farrell asks if there was any response from them.

Mr. Tuerpe states, there was no response.

Chair Ramos asks if there are any additional questions for staff.

There are none.

Chair Ramos asks for a representative from the District to comment.

Ryan Gross, General Manager for the Running Springs Water District states that the property owner made this request of the District in order to save a little over \$6000 annually. He states that the District fully supports LAFCO staff's recommendation.

Vice-Chair Curatalo states that he has questions for the Chief of the Running Springs Fire District and asks him to explain for the Commission the lack of automatic mutual-aid because like services are not provided.

Chief George Corley (Chief of the Running Springs Water District Fire) states that they do have mutual-aid agreements with all the other fire departments in the area. He states that 90% of the time, its medical aid service and the District provides an ambulance in the operating area. He states that County Fire is a good fire department and they provide mutual aid for each other.

Vice-Chair Curatalo asks is that upon request. He states that when the alarm goes off, is the mutual aid by request or is it automatic?

Chief Corley states that it is automatic.

Vice-Chair Curatalo states, is that it is for medical and for fire.

Chief Corley states yes and further states that he does not think that anyone will see much of a difference with the District being the lead agency because that is all that changes. He states that one of the things that is probably important is upon the rim of Highway 18, the weather up there is very bad during the winter with the fog. He states that it is probably risk versus gain and County Fire would not have to send an engine over unless the District requests it. He states that District would provide all the services in that area unless it was something beyond what they could handle. He states that they provide the same service as County Fire.

Commissioner Lovingood states that his question is how often is the District's relationship dependent upon County Fire to be there based upon what the District can and cannot handle. He asks Chief Corley to describe it.

Chief Corley states that one of the things that should be noted is wildland fire consideration in the surrounding area. He states that Forest Service land is the federal government's, within that piece of property is Cal Fire and that the District houses a Cal Fire engine in one of its stations, which is really close to that area, and it would be a structure fire that Cal Fire would come on over. He states that if it wasn't something they could put out very quickly they would request assistance. He states that the District provides the same service to County Fire.

Commissioner Lovingood states that he can understand that, but the resources that County Fire has is much greater when there is the need. He asks Chief Corley would he concur with that. He states that County Fire has greater resources from a support stand point.

Chief Corley states they have more resources, but the District has agreements with Big Bear Fire Authority and County Fire and the Forest Service and Cal Fire. He states that it would not be any different than with the District dealing with a structure fire or some emergency within our District as it stands now.

Vice-Chair Curatalo states that he has fire experience in the past and there are so many things that have to be considered; especially draw down and the weather conditions. He asks Chief Corley other agencies response time.

Chief Corley states County Fire's response time to the area is about 15 minutes and District is probably 4 minutes to get into the camp and sometimes longer depending upon the weather but he states that the District's response time does not change a whole lot due to where the District's stations are located. Big Bear Fire is usually somewhere around 35 to 40 minutes.

Vice-Chair Curatalo states that the resources to respond to the camp is an ambulance and an engine also.

Chief Corley states that the District has a different design and model. He states that what the District would usually do is - if it is medical aid, it responds with a squad and an ambulance into the area. He states that it will also have back up from Cal Fire. He states that the District is lucky because Cal Fire staffs one of its stations all year round. He states that Cal Fire travels with them on all of their incidents within the District's boundaries and will do the same to the reorganization area currently under consideration.

Chair Ramos asks if there are additional comments or questions for the representatives from Running Springs.

Chief Corley thanks the Commission for the opportunity to speak.

Chair Ramos opens public comment.

Mark Hartwig, County Fire Chief states that it's important to note a couple things; he states that County Fire supports the annexation and does not object to waste water and water or other services that Water District in Running Springs might offer. He states that County Fire has not had prior conversations with Running Springs Fire on this issue or that camp. He states to clarify Chief Corley's comments, County Fire does not have a current auto-aid agreement with the District, but that everybody is signatory to the California mutual aid agreement, which means that when somebody needs resources they can pick up the phone and call a neighboring jurisdiction and ask if they have something available. He states that this is done on a case by case basis depending on what County Fire has going on in own boundaries. He states that it was mentioned that finances were the biggest concern County Fire had and it should be noted that it does receive money from the general fund to augment the services in the Mountain Service Zone, and essentially, there is not extra funds out there so County Fire does rely on some of that. He states primarily as a service fire provider and the Fire Chief of County Fire, the primary concern is for service. He states that County Fire takes a look at each of its areas and a look at life safety issues and target hazards and the camps on the mountain area is a target hazard, and it's a life safety concern; then County Fire also looks at effective fire force and not only its ability to put a fire engine or a rescue or paramedic on the scene, but also how many would be needed. He states that in the Mountain Service Zone County Fire has the capability to provide an effective fire force. He states that the objection is primarily based on the safety and service to reorganization area, which currently is within the County Fire, and therefore believes any reorganization that would remove the responsibility for fire, rescue and first response EMS would be a degradation of service and be a disservice to the camp and the men and women who send their children there.

Chair Ramos asks the Commission for questions to Chief Hartwig.

Commissioner Farrell states that this is a strong argument, but this is an argument that can be made against any small local fire protection district. He questions what distinguishes this district and this service from all other small districts that provide local fire. He states that the argument of much larger resources is compelling, but he assumes that there are mutual aid agreements that could address this in a true emergency.

Chief Hartwig states that he does not know if he has had a smaller district with less capability and in fact from his perspective the District is a district that would not have the capability to provide the level of service to a facility they are asking to annex. He states that there are many smaller fire districts throughout the County and if that is the point Commissioner Farrell is trying to make, I would agree with that.

Commissioner Farrell states that he is not sure if the question has been answered, but maybe it is not possible. He states that it seems that any small district, as he was a board member of the previous Crest Forest Fire Protection District, which is now a part of the County Fire, but Crest Forest Fire before certainly never had snow cats for response so it seems that if LAFCO were not to approve this, the Commission should be introducing a policy that moves most of the small fire protection districts into County Fire for the arguments and the same issues that the Fire Chief was pointing out.

Supervisor Lovingood states that his children have attended this camp and in a true crisis, the County has the closest resources to make a tremendous difference and they have that as a concern.

Chair Ramos opens public comment

Tony Grave, President of the Running Springs Water District Board and retired fire chief states that services should not change whatsoever if the reorganization were to be approved. He states that all fire agencies are all signatory to the mutual aid agreement and all are going to respond to any incidents so nothing should change.

Chair Ramos closes public comment.

Commissioner Warren leaves the dais at 9:35 am.

Commissioner Bagley states that the discussion about the greater fire protection in the mountains is beyond the scope of this sole annexation. He states that he hears Chief Hartwig's concerns and its about 328 acre at \$55 an acre and the logical closest municipal service is obviously going to be the District, its problematic and the discussion of greater fire service is what needs to happen and its beyond just the annexation of this reorganization. He states that there is a reality about how many small fire districts there are, how effective they are and \$17,000 in a transfer of annual property income tax is almost insignificant when you are talking about this. He states that it all adds up and he understands that when you have a fire up there and it burn 20 acres, it would be a major crisis for everybody and it would not be the responsibility of any one agency. He states that he does not have an objection he just wants to put his feelings in it and it is just about having a discussion. He states that the Commission has had consolidations of fire departments and may have to revisit this area based on the complexity of the discussion today.

Vice-Chair Curatalo states that considering all these things and the sincere input from everyone, the services probably aren't going to change, but the formality of whose responsibility it is will. He questions that if this item was separated and the Commission went ahead with the water and sewer annexation and did not do the fire annexation, would that require a continuation for further review?

Executive Officer Samuel Martinez states that if the Commission moves forward with a modification, staff would have to change and modify the resolution and would have to be continued the item. He states that the County would have to re-do the property tax transfer to take out the fire component.

Vice-Chair Curatalo states if the water was not an issue right now, he does not think the Commission would be addressing fire. He states that he would be inclined to separate these and go with the wastewater component and not do the fire at this time.

Commissioner Lovingood states that if this is found as a motion, that he would second the motion to separate it and have it brought back.

Vice-Chair Curatalo states that he would like it to be a motion.

Chair Ramos states there has been a motion to separate wastewater and fire.

Paula de Sousa Mills, LAFCO Legal Counsel states that it would be for all services except for what the Commission wants to carve out. She states that it would be an annexation to the District for all purposes with the exception of anything the Commission is discussion to carve out.

Executive Officer Samuel Martinez states that the motion would be annexation to Running Springs Water District for all services except for fire.

Vice Chair Curatalo states then that would be his motion.

Chair Ramos states that for clarification, is a resolution ready to be presented for this motion or is this something the Commission should move to continue the item and brought back to the Commission for a future meeting.

Executive Officer Samuel Martinez states that the Commission can approve the motion and come back after the property tax transfer is done and come back with a revised resolution as a consent item.

Paula de Sousa Mills, LAFCO Legal Counsel states that in order to get the property tax exchange process re-done to address the change the Commission is directing, the Commission does need to take action today that sets in motion a provision of Revenue and Taxation Code Section 99 which allows the interested parties to renegotiate and come with a new tax exchange.

Discussion continues...

Vice Chair Curatalo states that he would like to amend his motion to continue the item.

Commissioner Lovingood states that he seconds the motion.

Chair Ramos states that there is a motion and a second and will include the January Hearing as the date to come back.

Commissioner Curatalo moves approval the revised motion, Second by Commissioner Lovingood. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, Ramos and Williams. Noes: None. Abstain: None. Absent: McCallon.

#### **DISCUSSION ITEMS:**

ITEM 6.

LAFCO SC#432 – REQUEST FOR EXEMPTION FROM THE PROVISIONS OF
GOVERNMENT CODE SECION 56133 FOR AGREEMENT BETWEEN
HESPERIA WATER DISTRICT AND COUNTY SERVICE ARE 64 FOR
WASTEWATER COLLECTION SERVICES- STAFF RECOMMENDATION
APPROVED

Project Manager Michael Tuerpe presents the staff report, a complete copy of which is on file in the LAFCO office and made a part of the record by its reference here. The item has been advertised through publication in newspapers of general circulation within the county, the *San Bernardino Sun* as required by law.

Commissioner Lovingood states that he would like to go ahead and approve the item.

Chair Ramos asks if there is public comment on this item.

There is none.

Commissioner Lovingood moves approval of the staff recommendation, Second by Commissioner Cox. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, Ramos and Williams. Noes: None. Abstain: None. Absent: Lovingood.

### ITEM 7. FIRST QUARTER FINANCIAL REVIEW FOR PERIOD JULY 1 THROUGH SEPTEMBER 30, 2018 – STAFF RECOMMENDATION APPROVED

Executive Officer Samuel Martinez states that this is first quarter report for the fiscal year to include revenues and expenditures with salaries and benefits, services and supplies. He states that salaries and benefits is 4% over the 25% benchmark and this is primarily due to July having three pay periods and the former Executive Officer's contract extending through the first quarter. He states that services and supplies are at 35%, which is normal for the first quarter and is due to the yearly one-time payments that occur the first quarter such as membership dues, CALAFCO conference registration and property and liability insurance. He states that the first quarter also had a fair amount of legal activity which is above budget authority. He states that the Commission is indemnified in both cases, LAFCO 3216 and 3218; and noting these charges are recoverable. He states that at this time, staff is not recommending any budget adjustments.

He states that anticipated activities for the second quarter include significant expenditures related to our scanning project, the annual audit, GIS and aerial imagery subscription and the governance-training program. He states that the Commission will have three training programs for this fiscal year. He states that in regards to our contingencies and reserves, in July the Commission took the action to increase our contingencies to \$50,000 as well as the general reserve to \$150,000. He states that in regards to revenues, the Commission has received 93% of the adopted budget revenues through the first quarter, to include 100% of the apportionment, with fees and deposits at 40% of the budgeted revenue.

Mr. Martinez shows and describes the proposal chart and activity graphs to the Commission.

He states that as of September 30, the Commission's cash balance is \$1,252.341 which consists of the Net Pension Liability Reserve, compensated absences reserve along with the contingency and general reserves. He states that the Commission has directed staff to prioritize the activity to address fire proposals, general jurisdictional changes, service contracts and service reviews. He states that at this time, there are no fire proposals but staff is moving forward with the changes of organizations/reorganization, service contracts and right now, staff is working on the service review for fire and emergency medical response, which includes ambulance and dispatch. He indicated that the remaining activities for the first quarter are generally within marker for first quarter activity. He states that LAFCO staff recommends that the Commission note and receipt the report and file.

Chair Ramos asks the Commission for a motion to receive and file this report from LAFCO staff

Commissioner Curatalo moves approval to receive and file, Second by Commissioner Cox. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, McCallon, Ramos and Williams. Noes: None. Abstain: None. Absent: McCallon.

# ITEM 8. STRATEGIC PLANNING WORKSHOP AUTHORIZATION AND APPROVAL OF PROPOSAL OF FACILITATION SERVICES – STAFF RECOMMENDATION APPROVED

- a. AUTHORIZE A STRATEGIC PLANNING WORKSHOP TO BE FACILITATED BY THE ALTA MESA GROUP, LLC
- b. REVIEW AND APPROVE PROPOSAL WITH ALTA MESA GROUP, LLC TO PROVIDE FACILITATION SERVICES FOR STRATEGIC WORKSHOP

Executive Officer Samuel Martinez states that during the interview process for selecting the new Executive Officer, strategic planning and the need to do one was discussed- particularly with the change in leadership as well as having new Commissioners. He states that in the staff report, strategic planning is an organization's process to define its strategy and direction, as well as making decisions on allocating resources. He states that it has been awhile since this Commission has done strategic planning and this is an opportune time. He states that he has reached out to Bill Chiat, the former Executive Director for CALAFCO, and currently the Dean of the CSAC Institute for Excellence in County Government. He states that Bill is highly recommended for his extensive work in facilitating strategic workshops he has done throughout the state and as he has good knowledge on LAFCO and how LAFCO works. He states that staff recommends that the Commission approve and support a strategic workshop for January 2019 and authorize the Executive Officer to accept and sign the proposal submitted by Mr. Bill Chiat from the Alta Mesa Group, LLC to provide facilitation services.

Commissioner Cox states that she would like to make the motion to approve and commend staff for such a wise selection at a very reasonable cost.

Discussion regarding the date of the strategic workshop continues.

Commissioner Cox amends her motion to include the workshop date to be January 22, 2019.

Chair Ramos asks for public comment.

There is none.

Commissioner Cox moves approval of the staff recommendation, Second by Commissioner Lovingood. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, McCallon, Ramos and Williams. Noes: None. Abstain: None. Absent: McCallon.

### ITEM 9. <u>UPDATE ON THE CITY OF RIALTO'S INITIATION OF ITS FIVE NORTH</u> RIALTO ISLANDS – STAFF RECOMMENDATION APPROVED

Executive Officer Samuel Martinez states that in May 2016, the Commission approved LAFCO 3201, which is the annexation of the Lytle Creek Specific Plan to the City of Rialto. He states during the consideration of LAFCO 3201 the Commission discussed the five islands and part of the conditions of approval of LAFCO 3201 was the requirement that the City initiate the annexation of its islands prior to the issuance of the certificate of completion. He states that in resuming discussion, the City council members and staff that were present at the time, requested that LAFCO modify that condition. The revised condition was to annex the five north Rialto islands within one year and the requirement that the City submit a resolution outlining its commitment to annex those islands within in one year. LAFCO staff was to provide the Commission with a six month update on its progress and the statement that if the City did not fulfill the annexation of the islands, that future approvals of annexations to the City would be contingent upon the annexation of the north Rialto islands. He states that LAFCO has had four updates since then. In June 2016, the City took an action by resolution affirming its commitment to annex the five North Rialto islands within one year of the approval of LAFCO 3201, which was approved in May 2016. He states that it is now October 2018 and the Commission has been doing updates with very little progress and, therefore, LAFCO staff is recommending that the Commission direct staff to continue to participate and assist the City in its process and staff will extend its help whenever the City needs it, and note for the record that if the City does not initiate the five islands, any annexation in the future—whether City initiated or by landowner/registered voter petition—will be contingent upon the annexation of the five north Rialto islands prior to the issuance of the certificate of completion of that annexation, and the final recommendation is to receive and file this report.

Chair Ramos asks if there are any questions from the Commission.

Vice-Chair Curatalo asks if Rialto understands the condition.

Executive Officer Samuel Martinez states that the condition has always been there and the condition has the commitment that the City was going to come back within one year and the City did came back with the requirement of a resolution from its city council that they were committed to coming back in one year.

Chair Ramos asks if there is further discussion.

There is none.

Chair Ramos asks if there is public comment.

There is none.

Commissioner Cox states that she will make the motion to receive and file.

Commissioner Cox moves approval to receive and file, Second by Commissioner Curatalo. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, McCallon, Ramos and Williams. Noes: None. Abstain: None. Absent: McCallon.

#### ITEM 10. REQUEST FOR LETTER OF SUPPORT FOR THE CALIFORNIA WATERFIX

Executive Officer Samuel Martinez states that at the August 2018 meeting of the Southern Region LAFCO's, there was a presentation of the California WaterFix, formerly known as the Bay Delta Conservation Plan. He states that the California WaterFix is an updated version to build two large tunnels to carry fresh water from the Sacramento River under the Sacramento San Joaquin Delta towards the intake stations for the state water project as well as the central valley project. He states that Mr. Charlie Wilson, a special district representative from Orange County LAFCO requested that the LAFCO's in Southern California take a position of support regarding the California WaterFix. Mr. Martinez states that he called the state water contractors in our county and made sure that no one was in opposition to the California WaterFix and all of them have taken a position of support through resolution, minute action or a letter. He states that staff is recommending the Commission direct staff to draft a support letter for the California WaterFix and for the Chair to sign the support letter for distribution.

Vice Chair Curatalo states that this is, an issue that has been going on for a long time and it definitely needs a fix. He states this is the best thing out there right now and it really needs to be supported. He states that a lot of the water agencies are supporting it. He states that he would like to make a motion to approve a letter of support.

Commissioner Cox seconds the motion to approve a letter of support.

Commissioner Farrell states that he is aware of this and he has a concern that this is a position and a role that sort of goes beyond the scope of the Commissions Charter. He states that it does not have anything to do with what the Commission is directly charged to maintain. He states that he is recognized as a member of a water district and this can be seen as an important element of the state, but he's not sure it has much to do with what this Commission is about. He states that this seems to be expanding into a political arena he is not sure the Commission should be in. He states that the other issue is has staff looked into the alternatives.

Vice Chair Curatalo asks has CALAFCO has supported this.

Executive Officer Samuel Martinez states no.

Paula de Sousa Mills, LAFCO Counsel states that she does not believe that they've been asked.

Vice Chair Curatalo states that he would like to stand with his motion because, it's a very important issue.

Discussion continues.

Chair Ramos states that the Commission has not seen a draft of the memo that will go out. He states that once there is one, it can be distributed to the Commissioners to see the language.

Executive Office Samuel Martinez states that if the Commission would like, this can be on the consent calendar for December 5, 2018.

Commissioner Bagley states that the Commission can also use this in its strategic workshop and come up with some kind of example and guidelines for requests in the future.

Chair Ramos states that there is a motion by Commissioner Curatalo to move forward on this and get a draft memo at the December meeting and there has been a second by Commissioner Cox.

Chair Ramos asks if there is further discussion.

There is none.

Chair Ramos asks if there is public comment.

There is none.

Commissioner Curatalo moves approval to draft a letter for support, Second by Commissioner Cox. There being no opposition, the motion passes with the following roll call vote: Ayes: Bagley, Cox, Curatalo, Lovingood, McCallon, Ramos and Williams. Noes: None. Abstain: None. Absent: McCallon.

#### **INFORMATION ITEMS:**

#### ITEM 11. LEGISLATIVE UPDATE REPORT

Executive Officer Samuel Martinez states that he does not have a legislative update for today, but during the Commission's last meeting on December 5, 2018, the Commission will receive a listing of all the legislation that affect LAFCO and their status.

#### ITEM 12. EXECUTIVE OFFICER'S ORAL REPORT

Executive Officer Samuel Martinez identifies that the next Commission meeting will be December 5, 2018 as there will not be a November meeting due to the Thanksgiving holiday. He states that Commissioners Bagley, Farrell and Amis along with Michael Tuerpe and himself attended the 2018 CALAFCO Conference in Yosemite and the conference was really good this year. He states that the front door access system for the LAFCO office is fully functional and no one can enter without being buzzed in or unless they have an access card. He states that staff feels more safe and thanks the Commission for putting the system in place. He states that staff has completed the audit preparation and auditors will be on site next week. He states that at the next hearing, the Commission will be considering an annexation to the Town of Apple Valley as well as a couple service contracts for the City of Redlands.

#### ITEM 13. COMMISSIONER COMMENTS

Commissioner Bagley states that the CALAFCO conference was excellent and the mobile workshop was on tree mortality, which is a critical issue in San Bernardino County.

Commissioner Farrell states that he would like to echo Commissioner Bagley's comments, as the conference was enjoyable. He states that one of the comments from the conference was to do a service review on the LAFCO's themselves and that was very interesting.

Commissioner Amis states that she would like to add that she also attended the conference and it was excellent. She states that the workshops were extremely informative, thought provoking and helpful.

#### ITEM 14. COMMENTS FROM THE PUBLIC

There is none

THERE BEING NO FURTHER BUSINESS TO COME BEFORE THE COMMISSION, THE HEARING ADJOURNS AT 10:27 A.M.

ATTEST:	
LA TRICI JONES	
Clerk to the Commission	
	LOCAL AGENCY FORMATION COMMISSION
	JAMES V. CURATALO, Vice-Chair

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West 3<sup>rd</sup> Street, Unit 150 San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 E-MAIL: lafco@lafco.sbcounty.gov www.sbclafco.org

**DATE:** NOVEMBER 13, 2018

FROM: SAMUEL MARTINEZ, Executive Officer

TO: LOCAL AGENCY FORMATION COMMISSION

SUBJECT: AGENDA ITEM #3 – APPROVAL OF EXECUTIVE OFFICERS' EXPENSE

**REPORTS** 

#### **RECOMMENDATION**:

Approve the Executive Officers' Expense Report for Procurement Card Purchases from September 23, 2018 to October 22, 2018.

#### **BACKGROUND INFORMATION:**

The Commission participates in the County of San Bernardino's Procurement Card Program to supply the Executive Officer a credit card to provide for payment of routine official costs of Commission activities as authorized by LAFCO Policy and Procedure Manual Section II – Accounting and Financial Policies #3(H). Staff has prepared an itemized report of purchases that covers the billing period of September 23, 2018 through October 23, 2018.

Additionally, please note there is a credit of \$388.50 on Hotel Deposits for the CALAFCO Annual Conference on the Former Executive Officer's Procurement Card. This credit is due to the cancellation of Commissioner hotel rooms.

Staff recommends that the Commission approve the Executive Officers' expense reports as shown on the attachments.

SM/IIi

Attachments



#### PROCUREMENT CARD PROGRAM

#### MONTHLY PROCUREMENT CARD PURCHASE REPORT

PAGE 1 OF

	Card Number		Cardholder							g Period
			Samuel Martinez					AN ALIA	9/23 -	10/22/18
DATE	VENDOR NAME	#	DESCRIPTION	PURPOSE	COST CENTER	G/L ACCOUNT	\$ AMT	TRIP Number	*R/D	SALES TAX
10/03/18	Daisy IT	1	Supplies	Supplies	8900005012	52002305	\$102.21		R	
10/08/18	Panera	2	Restaurant	Staff Dinner CALAFCO Conf.	8900005012	52942943	\$25.43		R	
10/08/18	Tenaya Lodge	3	Hotel	CALAFCO Conference	8900005012	52942942	\$227.75		R	
10/08/18	Tenaya Lodge	4	Hotel	CALAFCO Conference	8900005012	52942942	\$508.87		R	
10/08/18	Tenaya Lodge	5	Hotel	CALAFCO Conference	8900005012	52942942	\$438.75		R	
10/08/18	Tenaya Lodge	6	Hotel	CALAFCO Conference	8900005012	52942942	\$438.75		R	
10/08/18	Tenaya Lodge	7	Hotel	CALAFCO Conference	8900005012	52942942	\$225.75		R	
10/08/18	Calif. State Association	8	Publication	Exec. Ofcr. Recruitment	8900005012	52002080	\$150.00		R	
10/10/18	Daisy IT	9	Supplies	Supplies	8900005012	52002305	\$73.21		R	
10/11/18	Frontier	10	Phone Service	Communication	8900005012	52002041	\$622.45		R	
10/17/18	Thomson West	11	Publication	Law Library updates	8900005012	52002080	\$436.16		R	
10/19/18	Storetrieve	12	Records	Records Maintenance	8900005012	52002315	\$59.62		R	
09/28/18	Tenaya Lodge	13	Hotel	Refund CALAFCO Conference	8900005012	52942942	\$388.50		R	
		_								
		_			<del></del>					
	-									
		_			<del></del>					

The undersigned, under penalty of perjury, states the above information to be true and correct. If an unauthorized purchase has been made, the undersigned authorizes the County Auditor/Controller-Recorder to withhold the appropriate amount from their payroll check after 15 days from the receipt of the cardholder's Statement of Account.

Cardholder (Print & Sign)	Date
Samuel Martinez	11/13/18

Approving Official (Print & Sign)	Date
James Curatalo	12/05/18

## LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

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**DATE:** NOVEMBER 13, 2018

FROM: SAMUEL MARTINEZ, Executive Officer

TO: LOCAL AGENCY FORMATION COMMISSION

SUBJECT: AGENDA ITEM #4 - RATIFY PAYMENTS AS RECONCILED FOR

MONTH OF SEPTEMBER AND OCTOBER 2018 AND NOTE

**REVENUE RECEIPTS** 

#### **RECOMMENDATION**:

Ratify payments as reconciled for the month of September and October 2018 and note revenue receipts for the same period.

#### **BACKGROUND INFORMATION:**

Staff has prepared a reconciliation of warrants issued for payments to various vendors, internal transfers for payments to County Departments, cash receipts and internal transfers for payments of deposits or other charges that cover the period of September 1, 2018 through September 30, 2018 and October 1, 2018 through October 31, 2018

Staff is recommending that the Commission ratify the payments for September and October 2018 as outlined on the attached listings and note the revenues received.

SM/IIj

Attachments

	La	1	MONTH OF SEPTEMBER 2018 PAYMENTS PR	1		
Document Number		Posting Date	Activity	Reference	Vendor	Amount
900270031	51001235	9/17/2018	SDRMA WORKERS COMP RECONCILIATION	INVOICE 65041	SDRMA	\$283.2
900270015	52002085	9/17/2018	DAILY JOURNAL	INVOICE B3166124	DAILY JOURNAL	\$677.6
900263819	52002090	9/5/2018	JAN PRO CLEANING SERVICE	INVOICE 62892	JAN PRO	\$475.0
900269832	52002182	9/17/2018	EDISON UTILITY BILL 9/11/2018	INVOICE 239452309	EDISON	\$479.8
900219111	52002305	9/14/2018	CROWN PRINTERS S. MARTINEZ BUSINESS CARDS	INVOICE 105925	CROWN PRINTERS	\$136.0
900269877	52002400	9/17/2018	BEST BEST & KRIEGER	INVOICE 829917	BBK	\$990.0
900269892	52002400	9/17/2018	BEST BEST & KRIEGER	INVOICE 829916	BBK	\$2,856.9
900269894	52002400	9/17/2018	BEST BEST & KRIEGER	INVOICE 829914	ВВК	\$46.
900269903	52002400	9/17/2018	BEST BEST & KRIEGER	INVOICE 829915	ВВК	\$90.0
900270042	52002445	9/17/2018	ALDRICH & ASSOCIATES	INVOICE 71	ROBERT ALDRICH	\$2,700.0
900272758	52002445/2940	9/20/2018	BAGLEY STIPEND & MILEAGE	BAGLEY 9/19/18	JAMES BAGLEY	\$298.0
900272761	52002445/2940	9/20/2018	COX STIPEND & MILEAGE	COX 9/19/18	KIMBERLY COX	\$258.8
900272763	52002445/2940	9/20/2018	FARRELL STIPEND & MILEAGE	FARRELL 9/19/18	STEVEN FARRELL	\$218.
900272767	52002445/2940	9/20/2018	WILLIAMS STIPEND & MILEAGE	WILLIAMS 9/19/18	DIANE WILLIAMS	\$225.
900272770	52002445/2940	9/20/2018	CURATALO STIPEND & MILEAGE	CURATALO 9/19/18	JAMES CURATALO	\$227.5
900272773	52002445	9/20/2018	AMIS STIPEND	AMIS 9/19/2018	LOUISA AMIS	\$200.0
900272778	52002445	9/20/2018	LOVINGOOD STIPEND	LOVINGOOD 9/19/18	ROBERT LOVINGOOD	\$200.0
900272779	52002445	9/20/2018	RAMOS STIPEND	RAMOS 9/19/18	JAMES RAMOS	\$200.0
00270035	52002460	9/17/2018	RIVERSIDE LAFCO GIMS FEE FOR LAFCO SC# 427	GIMS SC# 427	RIVERSIDE LAFCO	\$17.
000269873	52002895	9/17/2018	KONICA MINOLTA	INVOICE 32406843	KONICA MINOLTA	\$428.4
900263818	52002905	9/5/2018	COMMISSION HEARING ROOM RENTAL SEPTEMBER 2018	INVOICE 635	INLAND VALLEY DEV AGCY	\$405.0
000265408	52942940	9/6/2018	JEFFREY LUM REIMBURSEMENT - MILEAGE	ESRI CONFERENCE	JEFFREY LUM	\$116.6
900265408	52942942	9/6/2018	JEFFREY LUM REIMBURSEMENT - HOTEL	ESRI CONFERENCE	JEFFREY LUM	\$752.6
900265408	52942943	9/6/2018	JEFFREYU LUM REIMBURSEMENT - MEALS	ESRI CONFERENCE	JEFFREY LUM	\$117.0
OTAL						\$12,117.7
		мс	ONTH OF SEPTEMBER 2018 INTERNAL TRANSFEI	RS PROCESSED		
	4100494807	9/1/2018	AUGUST 2018 DIAL TONE	ISD	ISD	\$323.7
	4100495681	9/1/2018	AUGUST WIRELESS DEVICE	ISD	ISD	\$37.4
	4100494815	9/1/2018	AUGUST 2018 DESKTOP SUPPORT SERVICES	ISD	ISD	\$1,615.6
	4100496839	9/1/2018	SEPTEMBER 2018 EQUAL MONTHLY CHARGES	ISD	ISD	\$1,071.0
	4200017663	9/5/2018	MAIL SERVICES - HAN	COUNTY MAIL	COUNTY MAIL	\$805.5
	4200017665	9/5/2018	MAIL SERVICES - FLAT	COUNTY MAIL	COUNTY MAIL	\$57.8
	4200017667	9/5/2018	MAIL SERVICES - DEL	COUNTY MAIL	COUNTY MAIL	\$216.2
	4200017789	9/7/2018	PURCHASING/PRINTING SVCS - LAFCO ENVELOPES	PURCHASING	PURCHASING	\$77.
	4200018447	9/21/2018	2018/19 COWCAP BILLING 1 - QTR 1	ATC	ATC	\$2,527.2
	4200018062	9/20/2018	LAFCO SC# 424 NOTICE OF EXEMPTION	COB	COB	\$50.0
	4200017635	9/6/2018	CERTIFICATION OF VOTERS LAFCO SC# 430	ROV	ROV	\$44.6
	4200017637	9/6/2018	CERTIFICATION OF VOTERS LAFCO SC# 429	ROV	ROV	\$44.6
OTAL					, Action of the control of the contr	\$6,871.0
			MONTH OF SEPTEMBER 2018 CASH REC	EIPTS		
	40709545	9/4/2018	LAFCO 3226 INDIVIDUAL NOTICE FEE		INDIVIDUAL NOTICE	\$315.9
	40709545	9/27/2018	LAFCO SC# 433 INDIVIDUAL NOTICE FEE		INDIVIDUAL NOTICE	\$700.0
	40709555	9/5/2018	LAFCO 3218 LEGAL FEES		INDEMNIFICATION	\$2,288.3
	40709555	9/18/2018	BALANCE OF LEGAL FEES FOR LAFCO SC#430		LEGAL FEES	\$600.0
						Ψ000.0

	40709555	9/27/2018	LAFCO 3216 LEGAL FEES		INDEMNIFICATION	\$376.5
	40709660	9/4/2018	LAFCO 3226 ENVIRONMENTAL FEES		ENVIRONMENTAL	\$1,329.4
9	40709660	9/27/2018	LAFCO SC# 433 ENVIRONMENTAL FEES		ENVIRONMENTAL	\$700.0
	40709800	9/18/2018	LAFCO SC# 432 LAFCO FEE DEPOSIT		LAFCO FEE DEPOSIT	\$6,700.0
	40709800	9/27/2018	LAFCO SC# 433 LAFCO FEE DEPOSIT		LAFCO FEE DEPOSIT	\$2,000.0
	40759930	9/27/2018	KATHLEEN ROLLINGS-MC DONALD I PAD PURCHASE		MISELLANEOUS	\$10.0
TOTAL					<del></del>	\$16,020.2
ш			MONTH OF SEPTEMBER 2018 INTERNAL TRANSFER	RED RECEIVED		
TOTAL						\$0.0
211				11/13/2018		
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RECONCILIATION A	APPROVED BY:					
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				11/13/2018		
SAMUEL MARTINEZ	Z, Executive Officer			DATE		

<b>Document Number</b>	Account	Posting Date	MONTH OF OCTOBER 2018 PAYMENTS PROC	Deference	Vonden	Americal
1900287670	52002085		Activity	Reference	Vendor	Amount
		10/15/2018	NOTICE OF HEARING LAFCO 3229	INVOICE B3175524	DAILY JOURNAL	\$670.59
1900279181	52002090	10/1/2018	LAFCO OFFICE HVAC COSTS	INVOICE UNIT 150	CITYCOM	\$325.5
1900287672	52002090	10/15/2018	JAN PRO CLEANING SERVICE	INVOICE 633333	JAN PRO	\$475.0
1900288915	52002180	10/16/2018	EDISON UTILITY BILL	INVOICE 2399452309	SO CAL EDISON	\$360.1
1900279186	52002335	10/1/2018	KELLY TEMP SERVICES	INVOICE 37025727	KELLY SERVICES	\$112.1
1900269905	52002400	10/15/2018	BEST BEST & KRIEGER	INVOICE 828813	BBK	\$1,381.7
1900279209	52002424	10/1/2018	TOM DODSON & ASSOCIATES	INVOICE LAFCO 18-6	TOM DODSON	\$850.0
1900283821	52002445	10/9/2018	ALDRICH & ASSOCIATES	INVOICE 72	ROBERT ALDRICH	\$2,250.00
1900288913	52002445	10/16/2018	ALDRICH & ASSOCIATES	INVOICE 73	ROBERT ALDRICH	\$2,250.00
1900290284	52002445/2940	10/18/2018	BAGLEY STIPEND & MILEAGE	BAGLEY 10-17-18	JAMES BAGLEY	\$298.00
1900290288	52002445/2940	10/18/2018	COX STIPEND & MILEAGE	COX 10-17-18	KIMBERLY COX	\$258.86
1900290293	52002445/2940	10/18/2018	FARRELL STIPEND & MILEAGE	FARRELL 10-17-18	STEVEN FARRELL	\$218.7
1900290299	52002445/2910	10/18/2018	WILLIAMS STIPEND & MILEAGE	WILLIAMS 10-17-18	DIANE WILLIAMS	\$225.73
1900290302	52002445/2940	10/18/2018	CURATALO STIPEND & MILEAGE	CURATALO 10-17-18	JAMES CURATALO	\$227.25
1900290305	52002445/2940	10/18/2018	WARREN STIPEND & MILEAGE	WARREN 10-17-18	ACQUANETTA WARREN	\$217.4
1900290310	52002445	10/18/2018	AMIS STIPEND	AMIS 10-17-18	LOUISA AMIS	\$200.0
1900290316	52002445	10/18/2018	LOVINGOOD STIPEND	LOVINGOOD 10-17-18	ROBERT LOVINGOOD	\$200.00
1900290319	52002445	10/18/2018	RAMOS STIPEND	RAMOS 10-17-18	JAMES RAMOS	\$200.0
1900279181	52002905	10/1/2018	LAFCO OFFICE RENT & CAM COSTS UNIT 150	INVOICE UNIT 150	CITYCOM	\$15,057.9
1900279203	52002905	10/1/2018	COMMISSION HEARING RM RENTAL	INVOICE 648	IVDA	\$405.0
1900287449	52002905	10/12/2018	TENANT AMORTIZATION #6	INVOICE 6	SBCTA	\$8.448.3
1900290325	52002940	10/18/2018	AMIS MILEAGE REIMBURSEMENT - CALAFCO CONF	AMIS CALAFCO	LOUISA AMIS	\$370.9
1900290334	52002940/2943	10/18/2018	BAGLEY REIMB. CALAFCO CONF MILEAGE/MEAL	BAGLEY CALAFCO	JAMES BAGLEY	\$446.6
1900290334	52002940/2943	10/18/2018	· · · · · · · · · · · · · · · · ·			<u> </u>
	152002940/2943	110/18/2018	FARRELL REIMB. CALAFCO CONF MILEAGE/MEAL	FARRELL CALAFCO	STEVEN FARRELL	\$403.9
TOTAL						\$35,183.23
		N	ONTH OF OCTOBER 2018 INTERNAL TRANSFERS	PROCESSED		
	4100545481	10/1/2018	SEPTEMBER 2018 DIAL TONE SERVICES	ISD	ISD	\$323.70
	4100545491	10/1/2018	SEPTEMBER 2018 WIRELESS DEVICE	ISD	ISD	\$37.4
	4100545505	10/1/2018	SEPTEMBER 2018 DESKTOP SUPPORT SERVICES	ISD	ISD	\$1,606,7
	4100545507	10/1/2018	SEPTEMBER 2018 AERIAL IMAGERY	ISD	ISD	\$3,000.0
	4100545507	10/1/2018	SEPTEMBER 2018 STREET NETWORK SUBSCRIPTION	ISD	ISD	\$10.500.0
	4100545487	10/1/2018	OCTOBER 2018 EQUAL MONTHLY CHARGES	ISD	ISD	\$10,713.0
ΓΟΤΑL	4100040407	10/1/2010	OF OBER 2010 EQUITE MONTHER OF MICOLO	100	100	\$26.180.84
TOTAL			MONTH OF OCTOBER 2018 CASH RECEI	PTS		\$20,100.0-
	40709555	10/30/2018	LAFCO 3218 CITY OF HESPERIA INDEMNIFICATION	İLEGAL	ILEGAL I	\$1,428.4
<del>.</del>	40709555	10/30/2018	LAFCO 3216 CITY OF HESPERIA INDEMNIFICATION	LEGAL	LEGAL	\$23.2
	40608500	10/30/2018	9/30/2018 INTEREST APPORTIONMENT	INTEREST	INTEREST	\$3,182.3
	52002310	10/4/2018	MAIL SERVICES - DEL	COUNTY MAIL	COUNTY MAIL	\$188.0
	52002310	10/4/2018	MAIL SERVICES - FLAT	COUNTY MAIL	COUNTY MAIL	\$35.3
	52002310	10/4/2018	MAIL SERVICES - HAN	COUNTY MAIL	COUNTY MAIL	\$213.6
	52002424	10/2/2018	LAFCO SC#429 NOTICE OF EXEMPTION	СОВ	COB	\$50.0
	52002424	10/2/2018	LAFCO SC#430 NOTICE OF DETERMINATION	СОВ	СОВ	\$50.0
	52002424	10/2/2018	LAFCO SC#427 NOTICE OF DETERMINATION	СОВ	СОВ	\$50.0
	52002445	10/2/2018	LAFCO 3228 CERTIFICATION OF VOTERS	ROV	ROV	\$44.6
	52002445	10/16/2018	LAFCO 3229 CERTIFICATION OF VOTERS	ROV	ROV	\$44.6

TOTAL		\$5,310.42
MONTH OF OCTOBE	R 2018 INTERNAL TRANSFERRED RECEIVED	
TOTAL		\$0.00
1 - 1/1 H	11/13/2018	
LA TRICI'JONES, Clerk to the Commission	DATE	
RECONCILIATION APPROVED BY:		-
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3 mindio din	11/13/2018	
SAMUEL MARTINEZ, Executive Officer	DATE	

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 lafco@lafco.sbcounty.gov www.sbclafco.org

**DATE:** NOVEMBER 26, 2018

FROM: SAMUEL MARTINEZ, Executive Officer

TO: LOCAL AGENCY FORMATION COMMISSION

SUBJECT: Agenda Item #5 – Approval of Letter of Support for the

**California WaterFix** 

#### **RECOMMENDATION:**

Staff recommends that the Commission authorize the Vice Chair to sign the Letter of Support and direct staff to forward to the Governor and other stakeholders.

#### **BACKGROUND:**

At the October 17, 2018 hearing, the Commission approved—in concept—its support for the California WaterFix but requested that staff draft the letter for consideration by the Commission (as a consent item) at its December hearing.

Attached is the draft support letter for the California WaterFix, which is generally consistent with the "proposed statement" recommended by Mr. Charley Wilson, Executive Director and CEO of the Southern California Water Coalition, who requested that the Southern Region LAFCOs take a support position for the California WaterFix.

#### CONCLUSION:

Staff is recommending that the Commission approve the support letter for the California WaterFix, make any additional changes, if any, and authorize the Vice Chair to sign the letter for distribution.

Attachment: Draft Letter of Support



### **LAFCO**

### Local Agency Formation Commission

for San Bernardino County

1170 West 3rd Street, Unit 150 San Bernardino, CA 92415-0490 909.388.0480 | Fax 909.388.0481 lafco@lafco.sbcounty.gov www.sbclafco.org

#### COMMISSIONERS

JIM BAGLEY Public Member

KIMBERLY COX Special District

JAMES V. CURATALO, Vice Chair Special District

ROBERT A. LOVINGOOD Board of Supervisors

> LARRY McCALLON City Member

JAMES RAMOS, Chair Board of Supervisors

DIANE WILLIAMS
City Member

#### **ALTERNATES**

LOUISA HOLSTEAD AMIS Public Member

> STEVEN FARRELL Special District

JANICE RUTHERFORD
Board of Supervisors

ACQUANETTA WARREN City Member

#### **EXECUTIVE OFFICER**

SAMUEL MARTINEZ

#### LEGAL COUNSEL

PAULA DE SOUSA MILLS

December 5, 2018

#### Via fax and regular mail

Governor Edmund G. Brown c/o State Capitol, Suite 1173 Sacramento, CA 95814

#### Dear Governor Brown:

The Local Agency Formation Commission for San Bernardino County took an action today, December 5, 2018, to express its support for the California WaterFix. We support the modernization of the state's aging water delivery system to ensure a reliable water supply for our region's future.

Roughly 30 percent of the water that flows out of taps in Southern California comes from Northern California via the Sacramento-San Joaquin Delta. However, the Delta's delivery system is antiquated, a problem compounded both by a declining ecosystem and 1,100-mile levee system that are increasingly vulnerable.

California WaterFix is a comprehensive solution proposed by state and federal agencies to ensure our state has a reliable water supply for many years to come. It would modernize the decades-old delivery system through the building of three new intakes in the northern Delta along with two tunnels to carry water to the existing aqueduct system in the southern Delta.

We believe that California WaterFix will provide LAFCO and its stakeholders the opportunity to demonstrate vision and leadership in tackling one of our region's most important issues. In addition, this project will facilitate changes in local water supply development and improve the future delivery of municipal water services.

Sincerely,

James V. Curatalo, Vice Chair

cc: Governor-Elect Gavin Newsom
Speaker Anthony Rendon, California State Assembly
John Laird, Secretary, California Natural Resources Agency
Karla Nemeth, Director, California Department of Water Resources
Randy Record, Chairman, Metropolitan Water District of
Southern California
Charley Wilson, Executive Director and CEO, Southern
California Water Coalition

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 lafco@lafco.sbcounty.gov www.sbclafco.org

DATE: NOVEMBER 27, 2018

FROM: SAMUEL MARTINEZ, Executive Officer

**MICHAEL TUERPE, Project Manager** 

TO: LOCAL AGENCY FORMATION COMMISSION

SUBJECT: Agenda Item #6: LAFCO SC#433 – City of Redlands OSC 18-01,

**Out-of-Agency Service Agreement for Water Service** 

(APNs 0302-152-09 & 0302-152-15)

#### **INITIATED BY:**

City of Redlands, on behalf of the property owner

#### **RECOMMENDATION:**

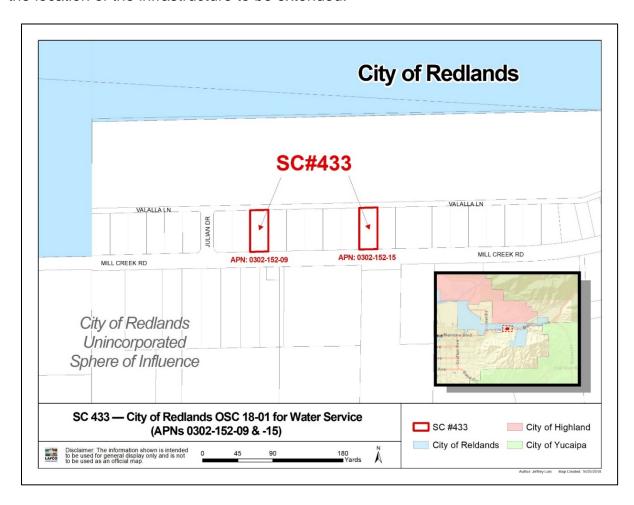
Staff recommends that the Commission approve LAFCO SC#433 by taking the following actions:

- 1. Certify that LAFCO SC #433 is statutorily exempt from environmental review and direct the Executive Officer to file a Notice of Exemption within five (5) days of this action.
- 2. Approve LAFCO SC #433 authorizing the City of Redlands to extend water service outside its boundaries to Assessor Parcel Numbers 0302-152-09 & 0302-152-15.
- Adopt LAFCO Resolution #3279 setting forth the Commission's determinations and approval of the agreement for service outside the City of Redlands' boundaries.

#### **BACKGROUND:**

The City of Redlands (hereinafter the "City") has submitted a request for approval of an out-of-agency service agreement that outlines the terms by which it will extend water

service. The agreement relates to two parcels currently under the ownership of an individual, Assessor Parcel Numbers ("APNs") 0302-152-09 and 0302-152-15, generally located north of Mill Creek Road, between Julian Drive West and Julian Drive East, within the City of Redlands' eastern sphere of influence in the Mentone community. The map below, which is also included as Attachment #1, provides a vicinity map of the site. In addition, Attachment #2 outlines the City's application including a map that provides the location of the infrastructure to be extended.



The property owner intends to build a single-family residence on each parcel. Therefore, the City, on behalf of the property owner, has requested that the Commission authorize the extension of water service to the two parcels pursuant to the provisions of Government Code Section 56133. Authorization of this agreement is required before the City can take the final actions to implement the terms of the agreement.

#### **PLAN FOR SERVICE:**

The City's application identifies that the City would provide water service to the proposed residential development through connection to an existing 12-inch water main

in Mill Creek Road that fronts both properties. A water lateral will also be extended into each property.

Pursuant to the Commission's application requirements for service contracts, information must be provided regarding all financial obligations for the extension of service outside an agency's boundaries. The provisions of the City's Measure U require that the property owner pay the "sums equivalent to the City's development impact fees" as a condition for access to water service. The City of Redlands has identified an estimated cost of \$36,493 in sums equivalent in development impact fees as well as water fees for the extension of water service to both parcels. The following table shows the cost to the property owner to fulfill this requirement:

Sums Equivalent to City's DIF	Cost
Transportation Facilities	\$3,025
Fire Facilities	1,154
Park/Community Center Facilities	7,920
General Government Facilities	1,373
Library Facilities	529
Police Facilities	60
Storm Drain Facilities	1,400
TOTAL	\$15,461

The table below is the City's water related fees:

Water Fees	Cost
Water Capacity	\$11,246
Water Source	2,046
Solid Waste	1,300
Water Frontage	6,440
TOTAL	\$21,032

In addition to the cost outlined above, the property owner will be responsible for the entire cost of the construction and installation of the lateral extensions from the water main.

#### **ENVIRONMENTAL DETERMINATION:**

As the CEQA lead agency, the Commission's Environmental Consultant, Tom Dodson from Dodson and Associates, has reviewed this proposal and has indicated that it is his recommendation that the review of LAFCO SC#433 is statutorily exempt from the California Environmental Quality Act (CEQA). This recommendation is based on the finding that the Commission's approval of the out-of-agency service agreement does not

have the potential to cause a significant adverse impact on the environment; and therefore, the proposal is exempt from the requirements of CEQA, as outlined in the State CEQA Guidelines, Section 15061(b)(3).

#### **CONCLUSION:**

The purpose of the service contract application is for the City to receive authorization to provide water service outside its boundaries via contract to APNs 0302-152-09 and 0302-152-15.

Staff has reviewed this request for authorization to provide water service from the City of Redlands outside its corporate boundaries against the criteria established by Commission policy and Government Code Section 56133. The area to be served is within the sphere of influence assigned the City of Redlands and is anticipated to become a part of the City sometime in the future. Staff supports the City's request for authorization to provide water service to APNs 0302-152-09 and 0302-152-15 since its facilities are adjacent to both parcels, and there is no other existing entity available to provide this service within the area.

#### **DETERMINATIONS:**

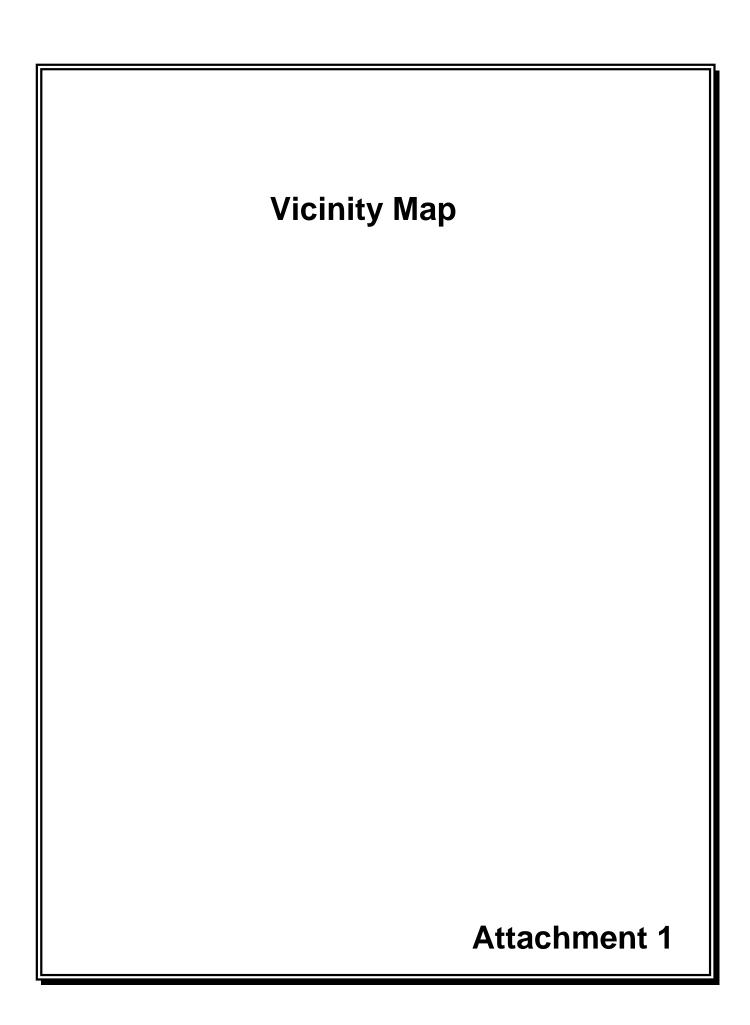
- 1. The parcels, identified as APNs 0302-152-09 and 0302-152-15, are within the sphere of influence assigned the City of Redlands and is anticipated to become a part of that City sometime in the future. The application requests authorization to receive City of Redlands water service.
- 2. The City of Redlands OSC 18-01 being considered is for the provision of water service to APNs 0302-152-09 and 0302-152-15, generally located north of Mill Creek Road, between Julian Drive West and Julian Drive East, within the City of Redlands' eastern sphere of influence in the Mentone community. This contract will remain in force in perpetuity or until such time as the area is annexed. Approval of this request for authorization will allow the property owner and the City of Redlands to proceed in finalizing the contract for the extension of water service.
- 3. The fees charged this project by the City of Redlands for the extension of water service are identified as totaling \$36,493 (for a breakdown of charges, see tables on page 3) for both parcels. Payment of these fees is required prior to connection to the City's water facilities. In addition, the property owner will be responsible for the entire costs of the construction and installation of the lateral extensions.
- 4. As the CEQA lead agency, the Commission's Environmental Consultant, Tom Dodson and Associates, has reviewed the service contract submitted by the City of Redlands and recommended that this application is statutorily exempt from

environmental review. A copy of Mr. Dodson's response is included as Attachment #3 to this report.

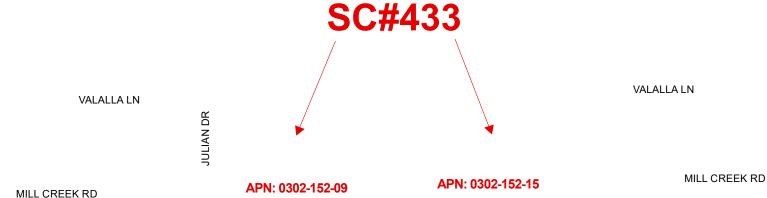
#### SM/MT

#### Attachments:

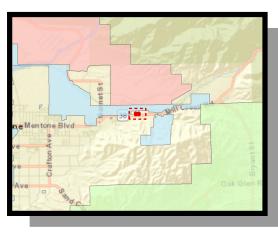
- 1. Vicinity Map
- City of Redlands' Application and Contract
   Response from Tom Dodson and Associates
- 4. Draft Resolution #3279



# City of Redlands



City of Redlands
Unincorporated
Sphere of Influence





Disclaimer: The information shown is intended to be used for general display only and is not to be used as an official map.

0 45 90

N

180 ■ Yards SC #433 City of Highland
City of Reldands City of Yucaipa

# City of Redlands' Application and Contract

**Attachment 2** 



# SAN BERNARDINO LAFCO APPLICATION FOR EXTENSION OF SERVICE BY CONTRACT

(A certified copy of the City Council/District Board of Directors resolution or a letter from the City Manager/General Manager requesting approval for an out-of-agency service agreement must be submitted together with this application form.)

AGENCY TO EXTEND SERVICE:	
AGENCY NAME:	CITY OF REDUANDS
CONTACT PERSON:	CITY OF REDURNOS ROSS WITTMAN
ADDRESS:	35 CAJIN STREET SUITE 154
	REDCAMOS CA 92373
PHONE:	909.798.7524 x1
EMAIL:	RNITTMAND CITYOFREDCANOS. ORC
CONTRACTING PARTY:	
NAME OF PROPERTY OWNER:	Norman SHARLEIN
CONTACT PERSON:	NORMAN SMARLEIN
MAILING ADDRESS:	1378 Ward WAY
	MENTONE CA 92359
PHONE:	909.801.4557
EMAIL:	BILDERMAN Q KoTMQIV. Com
ADDRESS OF PROPERTY PROPOSED FOR CONTRACT:	2815 MILL CREEK ROAD, MENTONE CA
	2829 MILL CALLER ROAD, MENTONE CA
CONTRACT NUMBER/IDENTIFICATION:	OUTSIDE City CASE 18-01
PARCEL NUMBER(S):	0302-152-09, 0302-152-15
ACREAGE:	

#### Extension of Service by Contract Application Form



The following questions are designed to obtain information related to the proposed agreement/contract to allow the Commission and staff to adequately assess the proposed service extension. You may include any additional information which you believe is pertinent. Please use additional sheets where necessary.

(a)	List the type or types of service(s) to be provided by this agreement/contract.    Forum Contract   Contract
(b)	Are any of the services identified above "new" services to be offered by the agency?   YES NO. If yes, please provide explanation on how the agency is able to provide the service.
In Alex	
Pleas	se property to be served within the agency's sphere of influence? YES NO see provide a description of the service agreement/contract.  1 PRE-ANNEX ATION HOLEGIENT 15 ATTRICHED
Pleas	se provide a description of the service agreement/contract.
Pleas	se provide a description of the service agreement/contract.

(b)	Is the property to be served contiguous to the agency's boundary?  YES NO. If yes, please provide explanation on why annexation to the agency is not being contemplated.
	9
to a the Govern	e service agreement/contract outside the Agency's sphere of influence in response threat to the public health and safety of the existing residents as defined by rnment Code Section 56133(c)?  ES NO. If yes, please provide documentation regarding the circumstance (i.e. from Environmental Health Services or the Regional Water Quality Control Board)
(a)	What is the existing use of the property?
	VACANT LAND
(b)	Is a change in use proposed for the property?   YES NO. If yes, please provide a description of the land use change.
	service agreement/contract is for development purposes, please provide a lete description of the project to be served and its approval status.
compl	

#### Extension of Service by Contract Application Form



8.	Are there any land use entitlements/permits involved in the agreement/contract?  XYES NO. If yes, please provide documentation for this entitlement including the conditions of approval and environmental assessment that are being processed together with the project. Please check and attach copies of those documents that apply:				
		Tentative Tract Map / Parcel Map  Permit (Conditional Use Permit, General Plan Amendment, etc.)  Conditions of Approval  Negative Declaration (Initial Study)  Notice of Determination (NOD)/Notice of Exemption (NOE)  Department of Fish and Game (DFG) Receipt  Others (please identify below)			
		CEGA EXEMPT PER SECTION 15303 AND 15319	_		
9.	contra	ne agency proposing to extend service conducted any CEQA review for this act? YES   NO. If yes, please provide a copy of the agency's environments sment including a copy of the filed NOD/NOE and a copy of the DFG Receipt.	– al		
10,	Plan for Service:				
	(a)	Please provide a detailed description of how services are to be extended to the property. The response should include, but not be limited to, a description of:  1) capacity of existing infrastructure, 2) type of infrastructure to be extended or added to serve the area, 3) location of existing infrastructure in relation to the area to be served, 4) distance of infrastructure to be extended to serve the area and 5) other permits required to move forward with the service extension.  There is an Existing 12 time the Developments with	,		
		TIE INTO ACROSS THE FRONTACE OF THE PROPERTY, NO	_		
		INTERSTEUTURE NILL BE INSTALLED OR EXTENDED.	_		
		A CITY OF REPLANDS ENCORRUMENT PERMIT WILL BE			
		FERVIRED IN ORDER FOR DEVELOPMENT TO MAKE			
			-		
			_		
			_		

Please provide a detailed descript		
The response should include the connection charges, etc.) and also serve the area (i.e. material/equipretc.).	the costs of all improvem	ents necessar
Description of Fees/Charg	es Cost	Total
PENGLIMENT VEDNIEWE		- Total
ALL ATTACHES		
· · · · · · · · · · · · · · · · · · ·		
-		

application.



(d)	the agency and the property owner, including a discussion of any later repayment or reimbursement (If available, a copy of the agreement for repayment/reimbursement is to be provided).				
	NOT APPLICABLE				
11	Does the City/District have any policies related to extending service(s) outside its boundary? YES NO. If yes, has a copy been provided to LAFCO? YES NO. If not, please include a copy of the policy or policies (i.e. resolution, municipal code section, etc.) as part of the application.				
	CERTIFICATION				
As a part o	f this application, the City/Town of, or the, or the, but the				
San Berna proceeding	San Bernardino LAFCO for all reasonable expenses and attorney fees, and release rdino LAFCO, its agents, officers, attorneys, and employees from any claim, action, brought against any of them, the purpose of which is to attack, set aside, void, or approval of this application or adoption of the environmental document which				
	nification obligation shall include, but not be limited to, damages, penalties, fines and imposed upon or incurred by San Bernardino LAFCO should San Bernardino				

The agency signing this application will be considered the proponent for the proposed action(s) and will receive all related notices and other communications. I understand that if this application is approved, the Commission will impose a condition requiring the applicant to indemnify, hold harmless and reimburse the Commission for all legal actions that might be initiated as a result of that approval.

LAFCO be named as a party in any litigation or administrative proceeding in connection with this

# Extension of Service by Contract Application Form



I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this evaluation of service extension to the best of my ability, and that the facts, statement and information presented herein are true and correct to the best of my knowledge and belief.

SIGNED

NAME:

**POSITION TITLE:** 

DATE:

#### REQUIRED EXHIBITS TO THIS APPLICATION:

Copy of the agreement/contract.

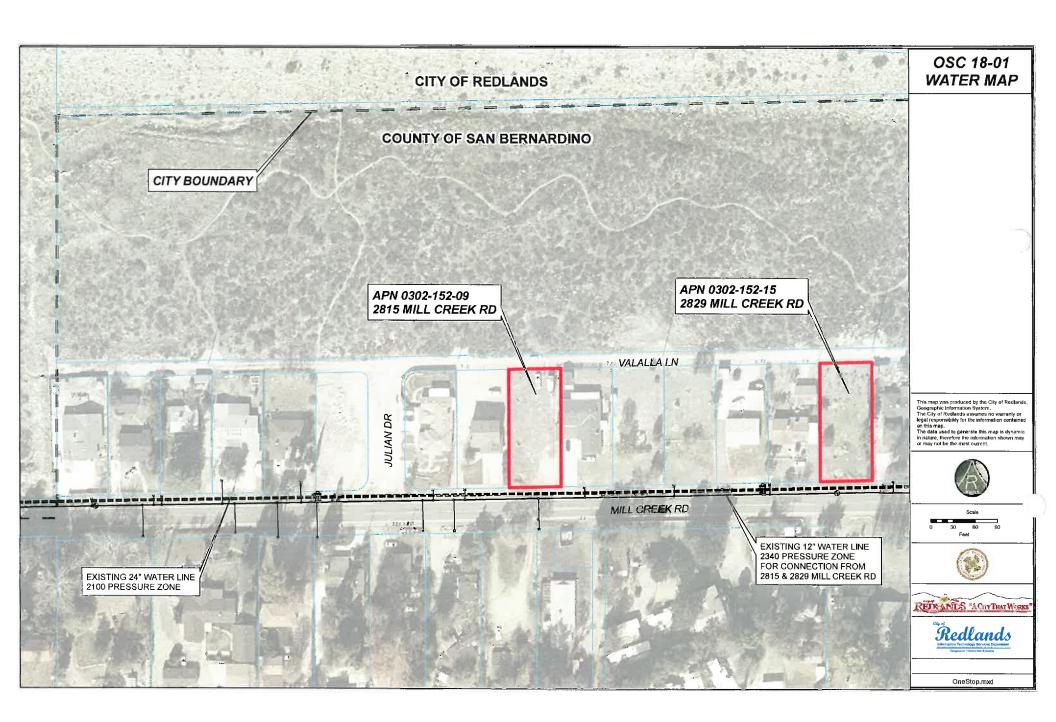
2. Map(s) showing the property to be served, existing agency boundary, the location of the existing infrastructure, and the proposed location of the infrastructure to be extended.

 Certified Plan for Service (if submitted as a separate document) including financing arrangements for service.

Please forward the completed form and related information to:

Local Agency Formation Commission for San Bernardino County 1170 W. Third Street, Unit 150, San Bernardino, CA 92415-0490 PHONE: (909) 388-0480 FAX: (909) 388-0481

Rev: krm - 8/19/2015



# REDLANDS MUNICIPAL UTILITIES AND ENGINEERING DEPARTMENT DEVELOPMENT REQUIREMENTS OSC NO. 18-01

Date:

**September 14, 2018** 

Applicant:

Norman Sharlein

Location:

2815 and 2829 Mill Creek Road

**Project Description:** 

(2) Single Family Dwellings

The following is a list of Municipal Utilities and Engineering Department requirements which must be fulfilled prior to establishment of a water service connection for the property known as 2815 and 2829 Mill Creek Road (APN(s) 0302-152-09 and 15, respectively) on the north side of Mill Creek Road, west of Julian Drive in Mentone, an unincorporated area of San Bernardino County.

# A. The following items are required prior to approval of APPLICATION FOR WATER SERVICE CONNECTION and prior to WATER METER INSTALLATION.

- 1. All National Pollutant Discharge Elimination System (NPDES) Best Management Practices (BMPs) to prevent and control discharges to the municipal separate storm sewer (drain) system shall be in place and shall be maintained throughout the course of the project.
- 2. Provide a copy of the site plan from the approved County building permit plan set.
- 3. Payment of all capital improvement and other development fees which would be applicable to the property if it were within the City limits. These fees will be the fees per ordinance in effect at time of the water meter installation. The exact amount will be determined based upon the review of the final building plan or project information. These fees shall include development impact fees for:
  - Water Capital Improvement;
  - Water Source Acquisition;
  - Transportation Facilities;
  - Fire Facilities;
  - Community Center Facilities;
  - General Government Facilities;
  - Police Facilities;
  - Storm Drain Facilities; and
  - Solid Waste Capital Improvement Charge.

There shall also be waterline frontage charges and appropriate meter installation fees.

4. Although this project will have an on-going inspection throughout construction, a final inspection for all water and sewer improvements must be scheduled by developer to certify that these improvements comply with City specifications.

# B. The following items are required prior to issuance of the ENCROACHMENT PERMIT.

- 1. Cash cleanup deposit shall be submitted (\$1,000.00). Deposit will be reimbursed after the work is completed and accepted by the City upon written request.
- 2. Section 4216/4217 of the Government Code requires a Dig Alert Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert Identification

OSC No. 18-01 September 14, 2018 Page 2

Number, call Underground Service Alert toll free, 1-800-227-2600, two (2) working days prior to conducting any excavation.

- 3. Encroachment Permit application and two (2) sets of City approved plans must be submitted for all off-site improvements. Encroachment Permit fees shall be paid prior to issuance of Encroachment Permit (RMC Section 12.16.260).
- 4. A California OSHA Permit Number for all work that is 5 feet deep or deeper shall be provided. Call (909)383-4321.
- 5. A traffic control plan shall be prepared in accordance with the latest revision of (CA) MUTCD or W.A.T.C.H. manual, submitted and accepted by the City Engineer prior to issuance of an encroachment permit. The plan shall show all required construction signage, warning devices, road closures, detours, delineation, phasing schedules and anticipated durations of closures and detours for any work within the public right-of-way. The plans shall provide names and 24-hour phone numbers of individuals who can be contacted regarding traffic control measures (RMC Section 12.20.130).

# C. The following items are required prior to issuance of FINAL ACCEPTANCE.

- 1. All requirements as described in Sections A and B of these conditions of approval shall be met.
- 2. All work shall be completed to the satisfaction of the City Engineer (RMC Section 13.62.050) (RMC Section 13.58.200).

# D. The following items are required prior to release of DEPOSITS.

- 1. All requirements as described in Section C of these conditions of approval shall be met.
- 2. The release of deposits must be requested in writing to the City Engineer. Allow 30 days for processing.

MICHAEL POOL

**Assistant City Engineer** 

DONALD YOUNG

One Stop Permit Manager

Initial

Proposed Development	Project Data:		Date:	9/14/2018		
Applicant	NORMAN SH	ARLEIN		Prepared by: akc		
Project	(2) SFD(s) (O			Pre-Annex Fees - Preliminary Estimate		
Address	2815 & 2829	MILL CREEK F	₹D			
Prior project	VACANT			Pre-Annex - Preliminary Credit		
(Include Agriculture if water supplied by City)						
PW DIF:	Fee	Credit	Est. NET DIF			
Transportation	\$3,024.72	\$0.00	\$3,024.72			
Fire	\$1,154.16	\$0.00	\$1,154.16			
Government	\$1,372.90	\$0.00	\$1,372.90			
Library	\$529.16	\$0.00	\$529.16			
Open Space/Park/Community Fa	x \$7,919.88	\$0.00	\$7,919.88			
Police	\$60.22	\$0,00	\$60.22			
Storm Drain	\$1,400.00	\$0.00	\$1,400.00			
Subtotal	\$15,461.04	\$0.00	\$15,461.04	•		
Water and Sewer DIF:				_		
Sewer Capacity	\$0.00	\$0.00	\$0.00			
Recycled Irr	\$0.00	\$0.00	\$0.00			
Water Capacity	\$11,246.00	\$0.00	\$11,246.00			
Water Source	\$2,046.00	\$0.00	\$2,046.00			
Solid Waste	\$1,300.00	\$0.00	\$1,300.00	_		
Subtotal	\$14,592.00		\$14,592.00			
Frontage Fees:						
Frontage Fee 8" Water	\$0.00	\$0.00	\$0.00	<del>-</del>		
Frontage Fee 12" Water:	\$6,440.00	\$0.00	\$6,440.00	-		
Frontage Fee 6" Non-Potable	\$0.00	\$0.00	\$0.00	_		
Frontage Fee 8" Sewer:	\$0.00	\$0.00	\$0.00	_		
Subtota		,	\$6,440.00	_		
Gustott		With Credits -	+-,			
Grand Tota		Adjusted Total:	\$36,493.04	]		

RECORDING REQUESTED BY
CITY OF REDLANDS
AND WHEN RECORDED MAIL DOCUMENT TO:

NAME

City Clerk, City of Redlands

STREET ADDRESS

P.O. BOX 3005

city, STATE & Redlands, CA 92373

9/05/2018 Electronically Recorded in Official Records, County of San Bernardino 04:07 PM **BOB DUTTON** ASSESSOR - RECORDER - CLERK 367 City of Redlands Clerk Pages 9 Titles 1 2018-0329583 .00 Fees Taxes .00 CA SB2 Fee .00 Others ٥٥. .00 Paid

FEES NOT REQUIRED PER GOVERNMENT CODE SECTION 6103

SPACE ABOVE FOR RECORDER'S USE ONLY

# Agreement for Annexation

Title of Document

# THIS AREA FOR RECORDER'S USE ONLY

THIS COVER SHEET ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION (\$3.00 Additional Recording Fee Applies)

Recording requested by and when recorded mail to:

City Clerk City of Redlands P. O. Box 3005 Redlands, CA 92373

# AGREEMENT FOR ANNEXATION AND PROVISION FOR CITY UTILITY SERVICES

This Agreement for Annexation and Provision of City Utility Services ("Agreement") is made and entered into this 4th day of September, 2018 by and between the City of Redlands, a municipal corporation organized and existing under the laws of the State of California ("City") and Norman Sharlein ("Property Owner"). The City and Property Owner are sometimes individually referred to herein as a "Party" and, together, as the "Parties."

#### RECITALS

WHEREAS, to provide for orderly planning, the City (1) has the authority pursuant to Government Code sections 65300 and 65301 to include in its General Plan property outside its boundaries which is in the City's sphere of influence or, which in the City's judgment, bears a relation to its strategic planning, and (2) also has the authority pursuant to Government Code section 65859 to pre-zone property within its sphere of influence for the purpose of determining the zoning designation that will apply to such property in the event of a subsequent annexation of the property to the City; and

WHEREAS, Property Owner owns a vacant parcel of land generally located at 2815 Mill Creek Road and identified as county of San Bernardino Assessor's Parcel Number 0302-152-09-0000 (the "Property") in the unincorporated area of the county of San Bernardino within the City's sphere of Influence, and has provided evidence satisfactory to the City that Property Owner is the fee owner of the Property; and

WHEREAS, Government Code section 56133 authorizes the City to provide new or extended services by contract outside its jurisdictional boundaries if it first receives written approval from the Local Agency Formation Commission for San Bernardino County ("LAFCO"), and provides that LAFCO may authorize the City to provide such services within the City's sphere of influence in anticipation of a later change of organization; and

WHEREAS, the City's General Plan and Chapter 13.60 of the Redlands Municipal Code establish policies and procedures for the approval of City utility services to land located within the City's sphere of influence and require, among other things, the owner of the property to be served to enter into an agreement and record the same in the official records of the county of San

Bernardino requiring the owner to annex the land to the City upon certain conditions; and

WHEREAS, the City has prepared a General Plan for the unincorporated area in which the Property is located to provide for the orderly planning of such area and has determined that the Property is consistent with the goals and policies of the City's General Plan; and

WHEREAS, it is the policy and goal of the City to discourage and not facilitate development in the City's sphere of influence which is unwilling and/or fails to comply with the City's General Plan and the City's development standards by refusing to extend utility services in such instances; and

WHEREAS, pursuant to the requirements of Chapter 13.60 of the Redlands Municipal Code and in consideration for the City's agreement to extend utility services outside its jurisdictional boundaries to the Property, Property Owner has entered into this Agreement to provide assurances to the City that connection to the City of Redlands domestic water system will occur in accordance with the Redlands General Plan and the Development Standards of the Redlands Municipal Code, and that the Property shall be annexed to the City in accordance with this Agreement's terms, provisions and conditions;

NOW, THEREFORE, in consideration of the mutual covenants contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, the City of Redlands and the Property Owner agree as follows:

#### AGREEMENT

- 1. Recitals. The foregoing recitals are true and correct.
- 2. Provision of Utility Services. The City agrees to provide domestic water service to the Property consistent with the terms and conditions of this Agreement, provided that the connection complies with all rules and regulations of the City governing the extension and provision of utility services to properties located outside the City's boundaries at the time a request by the Property Owner for application for a water connection is approved by the City's Municipal Utilities and Engineering Department. Nothing herein represents a commitment by the City to provide such service unless and until Property Owner complies with all such rules and regulations. As a condition of approval of an application for water connection, and prior to receiving any service, the Property Owner agrees to pay the full cost of such service as established by the City for the extension of utility services to the Property.
- 3. Agreement to Develop by City Standards. In consideration of the City's agreement to provide City water service to the Property, Property Owner shall develop the Property in accordance with the Redlands General Plan and any applicable development standards of the Redlands Municipal Code.
- 4. Agreement to Annex. In consideration of the City's agreement to provide City water service to the Property, Property Owner hereby irrevocably consents to annexation of the Property to City and agrees it shall take any and all reasonable and necessary actions, and fully and in good

faith cooperate with City, to cause the annexation of the Property to the City. Property Owner and the City agree that in the event City initiates an annexation of the Property, the City shall be responsible for the costs of such annexation. In all other instances where the annexation of the Property is proposed to the City, Property Owner shall be responsible for such costs.

- 5. <u>Taxes and Assessments.</u> Property Owner hereby consents to the imposition of, and agrees that the Property Owner shall pay, all taxes and assessments imposed and/or levied by the City which may be applicable to the Property at the time the Property is annexed to the City.
- 6. Recordation. By entering into this Agreement, Property Owner and the City acknowledge and agree that, among other things, it is the express intention of the Parties that any and all successors in interest, assigns, heirs and executors of Property Owner shall have actual and constructive notice of Property Owner's obligations under, and the benefits and burdens of, this Agreement. Therefore, this Agreement and any amendments hereof, shall be recorded in the official records of the County of San Bernardino. Property Owner further agrees that the City shall, at the sole cost of Property Owner, have the right to cause the recordation of this Agreement.
- 7. <u>Breach/Failure to Annex</u> In the event Property Owner fails to comply with its obligations under this Agreement or takes any action to protest, challenge, contravene or otherwise breach any of its obligations or representations under this Agreement, the City shall have the right to, without any liability whatsoever, cease the provision of City utility services to the Property. This right shall be in addition to any other legal or equitable relief available to the City.
- 8. Not a Partnership. The Parties specifically acknowledge that Property Owner's development of the Property is a private project, that neither Party is acting as the agent of the other in any respect hereunder, and that each Party is an independent contracting entity with respect to the terms, covenants and conditions contained in this Agreement. No partnership, joint-venture or other association of any kind is formed by this Agreement. The only relationship between the City and Property Owner is that of a governmental entity regulating the development of private property and the owner of such property.

# 9. Indemnity and Cost of Litigation.

a. Hold Harmless - Development. Property Owner agrees to and shall hold the City, and its elected and appointed officials, officers, agents and employees free and harmless from any and all liability for damage or claims for damage for personal injury, including death, and claims for property damage which may arise from the operations, errors, or omissions of Property Owner or those of its contractors, subcontractors, agents, employees or any other persons acting on Property Owner's behalf which relate to development of the Property. Property Owner agrees to and shall defend, indemnify and hold harmless the City, its elected officials, officers, agents, employees and representatives from all actions for damages caused or alleged to have been caused by reason of Property Owner's acts, errors or omissions in connection with the development of the Property. This hold harmless agreement applies to all damages and claims for damages suffered or alleged to have been suffered by reason of Property Owner's or its representatives' acts, errors or omissions regardless of whether or not the City supplied, prepared or approved plans or specifications relating to the development of the Property and regardless of whether or not any

insurance policies of Property Owner relating to such development are applicable.

- b. Third Party Litigation Concerning Agreement. Property Owner shall defend, at its expense, including attorneys' fees, indemnify and hold harmless the City, and its elected and appointed officials, officers, agents and employees from any claim, action or proceeding against any of them to attack, set aside, void or annual the approval of this Agreement or the approval of any permit or entitlement granted in furtherance of this Agreement. The City may, in its sole discretion, participate in the defense of any such claim, action or proceeding.
- 10. <u>Liquidated Damages</u> In the event that the property is not annexed to the City in accordance with the terms of the Agreement, the owner of the Property shall pay each year to the City, as liquidated damages, a sum equal to the property taxes and any sales taxes the City would have received had the Property been annexed. Failure to make such liquidated damages payments shall be cause for the City to cease water service to the Property.
- 11. <u>Section Headings.</u> All section headings and sub-headings are inserted for convenience only and shall not affect any construction or interpretation of this Agreement.
- 12. <u>Governing Law.</u> This Agreement and any dispute arising hereunder shall be governed by and construed in accordance with the laws of the State of California.
- 13. <u>Attorneys' Fees</u>. In the event any action is commenced to enforce or interpret the terms or conditions of this Agreement the prevailing Party shall, in addition to any costs and other relief, be entitled to the recovery of its reasonable attorneys' fees.
- 14. <u>Binding Effect.</u> The burdens of this Agreement bind and the benefits of this Agreement inure to the successors in interest of the Parties.
- 15. <u>Authority to Execute.</u> The person or persons executing this Agreement warrant and represent that they have the authority to execute this Agreement on behalf of the legal, fee title owner of the Property.
- 16. Waiver and Release. Property Owner hereby waives and releases any and all claims it may have against the City, and its elected and appointed officials, officers, employees and agents with respect to any City actions or omissions relating to the development of the Property and Property Owner's and the City's entry into and execution of this Agreement. Property Owner makes such waiver and release with full knowledge of Civil Code Section 1542, and hereby waives any and all rights thereunder to the extent of this waiver and release, of such Section 1542 is applicable. Civil Code Section 1542 provides as follows:
  - "A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."
  - 19. Construction. The Parties agree that each Party and its counsel have reviewed this

Agreement and that any rule of construction to the effect that ambiguities are to be resolved against the drafting Party shall not apply in the interpretation of this Agreement. The Parties further agree that this Agreement represents an "arms-length" transaction agreed to by and between the Parties and that each Party has had the opportunity to consult with legal counsel regarding the terms, conditions and effect of this Agreement.

20. <u>Entire Agreement</u>. This Agreement sets forth and contains the entire understanding and agreement of the Parties as to the matters contained herein, and there are no oral or written representations, understandings or ancillary covenants or agreements which are not contained or expressly referenced herein, and no testimony or evidence of any such representations, understandings or covenants shall be admissible in any preceding of any kind or nature to interpret or determine the terms or conditions of this Agreement.

Norman Sharlein, Owner

CITY OF REDLANDS

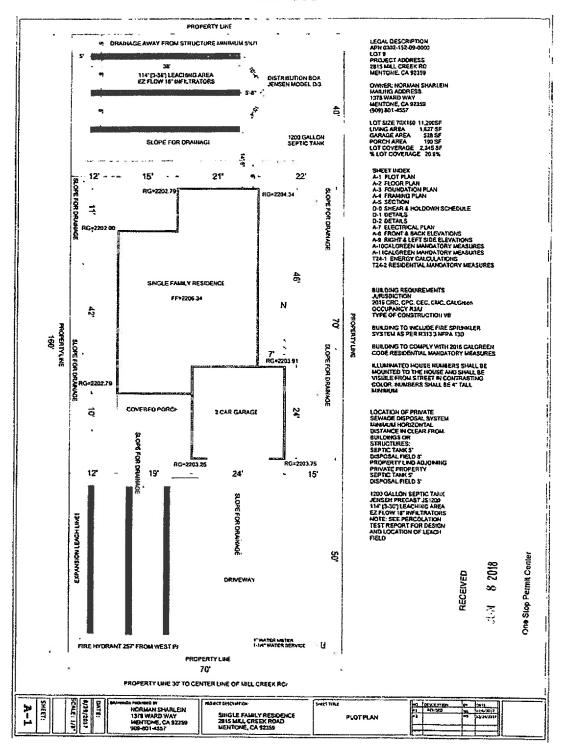
Paul W. Foster, Mayor

ATTEST:

Date: 9/5/18

PROPERTY OWNER

# EXHIBIT A PROJECT



#### CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT CIVIL CODE § 1189 A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. State of California County of San Bernardino before me, Heather MacDonald, Notary Public On August 31, 2018 Here Insert Name and Title of the Officer Date Norman Sharlein ----personally appeared \_ Name(s) of Signer(s) who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in (his/her/their authorized capacity(jes), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. HEATHER MACDONALD COMM. # 2216458 NOTARY PUBLIC-CALIFORNIA AN BERNARDINO COUNT My Commission Expires OCTCBER 1, 2021 Place Notary Seal Above OPTIONAL -Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document. **Description of Attached Document** Title or Type of Document: Pre-Annexation Agreement \_\_ Number of Pages: \_ Document Date: \_ Signer(s) Other Than Named Above: \_ Capacity(ies) Claimed by Signer(s) Signer's Name: Signer's Name: ☐ Corporate Officer — Title(s): \_ ☐ Corporate Officer — Title(s): \_\_\_ □ Partner — □ Limited □ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Individual ☐ Attorney in Fact ☐ Individual ☐ Guardian or Conservator ☐ Trustee ☐ Trustee ☐ Guardian or Conservator □ Other: ☐ Other:

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Signer Is Representing: \_

Signer Is Representing: \_

# CIVIL CODE § 1189 CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. State of California County of \_San Bernardino Heather MacDonald, Notary Public <u>6MD27 5, 2018</u> before me, Here Insert Name and Title of the Officer personally appeared Paul W. Foster and Jeanne Donaldson Name(s) of Signer(s) who proved to me on the basis of satisfactory evidence to be the persons whose name(s) is/ere subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(es) and that by his/her/their signatures on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. HEATHER MACDONALD COMM. # 2216458 OTARY PUBLIC-CALIFORNIA SAN BERNARDING COUNTY by Commission Expires OCTOBER 1, 2021 Place Notary Seal Above OPTIONAL -Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document. **Description of Attached Document** oe Annexation Title or Type of Document Document Date: \_ Signer(s) Other Than Named Above: Capacity(ies) Claimed by Signer(s) Signer's Name: Signer's Name: ☐ Corporate Officer — Title(s): \_ ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General ☐ Individual ☐ Attorney in Fact ☐ Individual ☐ Attorney in Fact □ Trustee Guardian or Conservator ☐ Trustee ☐ Guardian or Conservator Other: ☐ Other: Signer Is Representing: Signer Is Representing:

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# Response from Tom Dodson and Associates

**Attachment 3** 

# TOM DODSON & ASSOCIATES

2150 N. ARROWHEAD AVENUE SAN BERNARDINO, CA 92405 TEL (909) 882-3612 • FAX (909) 882-7015 E-MAIL tda@tdaenv.com



November 16, 2018

Mr. Samuel Martinez Local Agency Formation Commission 1170 W 3<sup>rd</sup> Street, Unit 150 San Bernardino, CA 92415-0490



**LAFCO**San Bernardino County

#### Dear Sam:

I have completed the California Environmental Quality Act (CEQA) review of out-of-area service contract, SC#433 for the Commission. LAFCO SC#433 would permit the City of Redlands to extend water service to two single parcels of land located in unincorporated territory on the east side of the City in the community of Mentone which is in the City's eastern Sphere of Influence. The two parcels are located on the north side of Mill Creek Road, just east of Julian Drive. If approved, the service extension would provide water service and allow two single family residences to be constructed in the near term future on lots that are currently vacant. If approved, these facilities would be connected to City of Redlands potable water distribution system. In return, the owner makes a commitment to ultimately annex this parcel to the City. At the present time the property is noncontiguous with the City's boundary.

Based on the above proposal and the findings presented below, it appears that LAFCO SC#433 can be implemented without causing significant adverse environmental impacts. The administrative record does not identify any action to comply with the California Environmental Quality Act (CEQA) for this proposed project. Therefore, LAFCO will consider this extension of service contract as the CEQA lead agency. Based on the limited number of units (2) that can ultimately be developed on these properties, this project has no potential to cause a significant adverse impact on the environment. Therefore, I conclude that LAFCO SC#433 does not constitute a project under CEQA and adoption of the Statutory Exemption (under the "General Rule") and filing of a Notice of Exemption is the most appropriate determination to comply with the CEQA. This exemption is found in Section 15061(b)(3). The Commission can approve this review and finding for this action and I recommend that you notice LAFCO SC#433 as statutorily exempt from CEQA for the reasons outlined in the State CEQA Guideline section cited above. The Commission needs to file a Notice of Exemption (NOE) with the County Clerk to the Board for this action once a decision is made for this out-of-area service agreement.

Thus, after independent review of this proposed action, the proposed water service extension to these two lots does not appear to have any potential to significantly alter the existing physical environment. Extending water service has no effect on land uses which are governed by the County. Thus, this service extension does not involve any change in the authorized end use, which will consist of one single family residence on each parcel in the near future. Since no other project is pending or will occur as a result of approving this application, no other potential significant physical changes in the environment are forecast to result from this action. Further, extending water service to these parcels is not forecast to create growth inducement because most of the land along this segment of Mill Creek Road is already developed with residential uses.

Based on a review of LAFCO SC#433 and the pertinent sections of CEQA and the State CEQA Guidelines, I believe it is appropriate for the Commission's CEQA environmental determination to cite the "General Rule" statutory exemption, as adequate documentation in accordance with the Commission's CEQA lead agency status. If you have any questions regarding these recommendations, please feel free to give me a call.

Sincerely,

Tom Dodsor President

TD/cmc

# **Draft Resolution #3279 Attachment 4**

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 lafco@lafco.sbcounty.gov www.sbclafco.org

PROPOSAL NO.: LAFCO SC#433

**HEARING DATE: DECEMBER 5, 2018** 

# **RESOLUTION NO. 3279**

A RESOLUTION OF THE LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY MAKING DETERMINATIONS ON LAFCO SC#433 – CITY OF REDLANDS OSC 18-01, OUT OF AGENCY SERVICE AGREEMENT FOR WATER SERVICE (APN 0302-152-09 AND 0302-159-15)

On motion of Commissioner \_\_\_\_, duly seconded by Commissioner \_\_\_\_ and carried, the Local Agency Formation Commission adopts the following resolution:

**WHEREAS**, Government Code Section 56133 requires the Local Agency Formation Commission to review and approve or deny applications for agencies to provide services outside their existing boundaries; and,

**WHEREAS**, an application for the proposed service extension in San Bernardino County was filed with the Executive Officer of this Local Agency Formation Commission in accordance with the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (Government Code Sections 56000 et seq.), and the Executive Officer has examined the application and determined that the filings are sufficient; and,

**WHEREAS**, at the times and in the form and manner provided by law, the Executive Officer has given notice of the public hearing by the Commission on this matter; and,

**WHEREAS**, the Executive Officer has reviewed available information and prepared a report including his recommendations thereon, the filings and report and related information having been presented to and considered by this Commission; and,

**WHEREAS**, the public hearing by this Commission was called for December 5, 2018 at the time and place specified in the notice of public hearing; and,

**WHEREAS**, at the hearing, this Commission heard and received all oral and written protests; and all persons present were given an opportunity to hear and be heard in respect to any matter relating to the contract, in evidence presented at the hearing;

#### **RESOLUTION NO. 3279**

**NOW, THEREFORE, BE IT RESOLVED**, that the Local Agency Formation Commission for San Bernardino County does hereby determine, find, resolve and order as follows:

# **DETERMINATIONS:**

**SECTION 1**. The following determinations are noted in conformance with Commission policy:

- 1. The properties identified as Assessor Parcel Numbers 0302-152-09 and 0302-152-15 are within the sphere of influence assigned the City of Redlands and are anticipated to become a part of that City sometime in the future. The application requests authorization to receive City of Redlands' water service.
- 2. The City of Redlands' OSC 18-01 being considered is for the provision of water service to Assessor Parcel Numbers 0302-152-09 and 0302-152-15. This contract will remain in force in perpetuity or until such time as the area will be annexed. Approval of this application will allow the property owner and the City of Redlands to proceed in finalizing the contract for the extension of water service.
- 3. The fees charged this project by the City of Redlands for water service are identified as totaling \$36,493 (a breakdown of charges is on file in the LAFCO office) for both parcels. Payment of these fees is required prior to connection to the City's water facilities. In addition, the property owner shall bear all costs to complete improvements needed to extend the water service to the two parcels.
- 4. The Local Agency Formation Commission for San Bernardino County has determined that this service contract is statutorily exempt from environmental review since it does not have the potential for resulting in physical changes in the environment (Section 15161[b] [3] of the State California Environmental Quality Act Guidelines). Therefore, this proposal is not subject to environmental review under the provisions of the State CEQA Guidelines section cited above or the Commission's adopted CEQA Guidelines. The Commission hereby adopts the Statutory Exemption and directs its Executive Officer to file a Notice of Exemption within five (5) working days with the San Bernardino County Clerk of the Board of Supervisors.

**SECTION 2.** <u>CONDITION</u>. The City of Redlands shall indemnify, defend, and hold harmless the Local Agency Formation Commission for San Bernardino County from any legal expense, legal action, or judgment arising out of the Commission's approval of this service contract, including any reimbursement of legal fees and costs incurred by the Commission.

**SECTION 3.** The Local Agency Formation Commission for San Bernardino County does hereby determine to approve the service extension contract submitted by the City of Redlands to provide water service to Assessor Parcel Number 0302-152-09 and 0302-152-15.

**SECTION 4.** The Commission instructs the Executive Officer of this Local Agency Formation Commission to notify the affected agencies that the application identified as LAFCO SC#433 – City of Redlands OSC 18-01, Out-of-Agency Service Agreement for Water Service (Assessor Parcel Numbers 0302-152-09 and 0302-152-15), has been approved.

# **RESOLUTION NO. 3279**

	PROVED AND ADOPTED by o County by the following v	the Local Agency Formation Commission vote:			
AYES:	COMMISSIONERS:				
NOES:	COMMISSIONERS:				
ABSENT:	COMMISSIONERS:				
* * * * * * * * * * * *	* * * *				
STATE OF CALIFORNIA )					
COUNTY OF	SAN BERNARDINO	SS.			
I, SAMUEL MARTINEZ, Executive Officer of the Local Agency Formation Commission for San Bernardino County, California, do hereby certify this record to be a full, true, and correct copy of the action taken by said Commission by vote of the members present as the same appears in the Official Minutes of said Commission at its regular meeting of December 5, 2018.					
DATED:					
***		SAMUEL MARTINEZ Executive Officer			
		LACCULIVE OFFICE			

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 lafco@lafco.sbcounty.gov www.sbclafco.org

DATE: NOVEMBER 28, 2018

FROM: SAMUEL MARTINEZ, Executive Officer

MICHAEL TUERPE, Project Manager

TO: LOCAL AGENCY FORMATION COMMISSION

SUBJECT: Agenda Item #8: LAFCO 3229 -- Reorganization to include

Annexation to the Town of Apple Valley and Detachment from

**County Service Area 70** 

# **INITIATED BY:**

Resolution of the Town Council of the Town of Apple Valley

# **RECOMMENDATION:**

The staff recommends that the Commission approve LAFCO 3229 by taking the following actions:

- 1. With respect to environmental review:
  - a. Certify that the Commission, its staff, and its Environmental Consultant have independently reviewed and considered the Town of Apple Valley's Addendum to the Environmental Impact Report (SCH#2008091077) prepared by the Town for the Apple Valley 2009 General Plan and Annexation 2008-001;
  - b. Determine that the Town of Apple Valley's environmental assessment is adequate for the Commission's use as a CEQA Responsible Agency for its consideration of LAFCO 3229:
  - c. Determine that the Commission does not intend to adopt alternatives or additional mitigation measures for the project; that the mitigation measures identified in the Town of Apple Valley's environmental documents are the responsibility of the Town and/or others, not the Commission; and,

- d. Direct the Executive Officer to file the Notice of Determination within five (5) days, and find that no further Department of Fish and Wildlife filing fees are required by the Commission's approval of LAFCO 3229 since the Town of Apple Valley, as lead agency, has paid said fees.
- 2. Approve LAFCO 3229 with the following determination The Commission determines that approval of LAFCO 3229 will create an unincorporated island completely surrounded by the Town of Apple Valley. Since the east side of Interstate 15 within the Town's unincorporated sphere cannot be developed in conformity with the Town's standards unless the area is annexed, the Commission determines, pursuant to the provision of Government Code Section 56375(m), to waive the restrictions on the creation of a totally surrounded island contained within Government Code Section 56744 because it would be detrimental to the orderly development of the community, and it further determines that the area to be surrounded cannot reasonably be annexed to another city or incorporated as a new city.
- 3. Approve LAFCO 3229 with the following conditions:
  - a. The Town of Apple Valley will accept the transfer of all previously offered or dedicated drainage easements within the affected area as shown on exhibits to the resolution of approval, which exclude any regional drainage facilities identified. The Town will assume authority over these drainage easements upon completion of LAFCO 3229;
  - b. The Town of Apple Valley shall be required to initiate annexation of the remainder of the island within one year of the Commission's approval of LAFCO 3229. A resolution by the Town Council of the Town of Apple Valley shall be submitted to the Executive Officer of LAFCO outlining the Town's commitment to fulfilling this requirement prior to the issuance of the Certificate of Completion for LAFCO 3229. A status report shall be provided to the Commission at the six month date outlining the progress of the Town of Apple Valley in fulfilling its obligation. Failure on the part of the Town of Apple Valley to fulfill its commitment for annexation of the remainder island shall require that the next annexation proposed to the Town of Apple Valley, either by the Town through resolution or by property owner/registered voter petition, include a condition requiring the initiation of annexation of the reminder island. Said condition of approval shall be deemed completed upon the issuance of the Certificate(s) of Filing for the island.
  - c. The standard LAFCO terms and conditions that include, but are not limited to, the "hold harmless" clause for potential litigation costs by the applicant and the continuation of fees, charges, and/or assessments currently authorized by the annexing agency.

4. Adopt LAFCO Resolution No. 3280, setting forth the Commission's determinations and conditions of approval concerning LAFCO 3229.

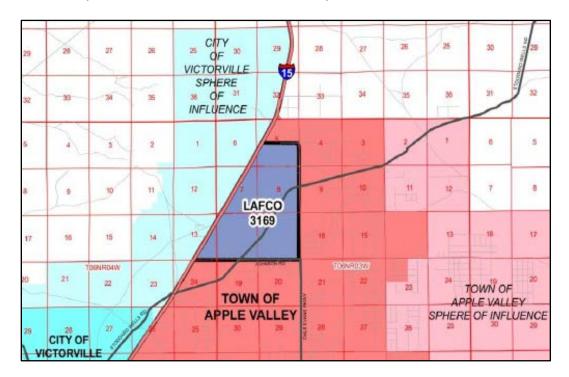
# **BACKGROUND:**

# **Prior Proposal (LAFCO 3169)**

In 2012, the Town of Apple Valley ("Town") submitted an application to annex the entirety of its unincorporated northwestern sphere of influence (LAFCO 3169). In its application to LAFCO, the Town provided the following reasons for the potential annexation:

- The annexation would bring the planning, design, and construction of future development, including public roads, under the jurisdiction and direction of one entity and provide for the control, orderly development and logical growth in accordance with the Town General Plan.
- The lands are within the Town of Apple Valley sphere of influence and contiguous with its existing corporate limits on the north, east and south. The annexation represents a logical extension of the Town's corporate limits to adequately plan for the anticipated future growth in the area.

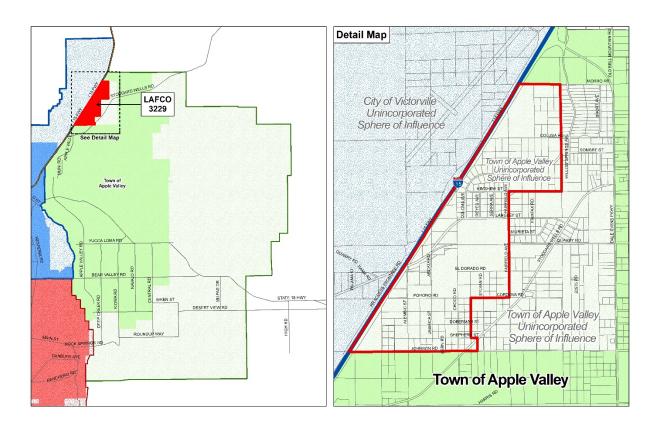
The Commission approved LAFCO 3169. However, during the protest proceedings, the registered voters within the territory submitted adequate protest to terminate the proposal. A map of LAFCO 3169 and the unincorporated island is shown below.



# **Current Proposal (LAFCO 3229)**

The Town returns with a new proposal to annex the area. The proposed reorganization (LAFCO 3229) has been initiated by resolution of the Town Council of the Town of Apple Valley. The purpose of the proposal is to bring planning, design, and construction of future development, including public roads, under the jurisdiction and direction of one entity, and provide proper control, orderly development, and logical growth in accordance with the Town of Apple Valley's General Plan.

The proposed reorganization area comprises approximately 1,365 acres, generally bordered by a combination of parcel lines and Morro Road (existing Town boundaries) on the north, a combination of Fairfield Avenue and parcel lines on the east, a combination of parcel lines, Johnson Road (existing Town boundaries) on the south, and the centerline of Interstate 15 Freeway on the west. The area is generally located in the Town's northwestern sphere of influence. A vicinity map is included as Attachment #1 to this report. The map below provides a general location of the area to be annexed into the Town.



This report provides the Commission with the information related to the four major areas of consideration required for a jurisdictional change – boundaries, land uses, service issues and the effects on other local governments, and environmental considerations.

# **BOUNDARIES:**

# **Boundary Description**

The study area is surrounded by: (1) vacant lands to the north within the Town including the Dale Evans Parkway on- and off-ramp to the I-15 freeway; (2) to the east is a mix of residential and vacant lands; (3) to the south, within the Town of Apple Valley, are scattered residential development, the Walmart Distribution facility, and vacant lands; and (4) to the west are unincorporated lands within the City of Victorville sphere of influence which are primarily vacant and proposed for development under the Desert Gateway Specific Plan.

The annexation of this territory will provide a clear delineation between what is anticipated to be the City of Victorville, the territory west of the I-15 Freeway, and the Town of Apple Valley.

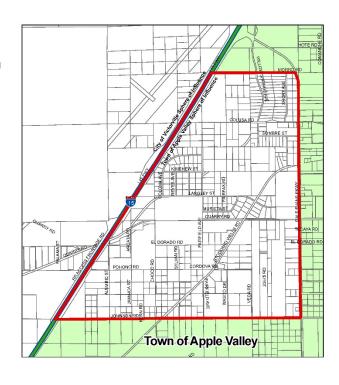
# **Creation of a Totally Surrounded Island and Commission Options**

Based on the previous attempt to annex the entire island that was defeated due to protest from residents, the current configuration is what the Town proposes at this time. However, the proposal, as submitted, would create a totally surrounded island territory. Government Code §56744 does not allow for a city annexation if that annexation results in unincorporated territory being completely surrounded – the creation of an island. In staff's view, the Commission has the following options to address the island area:

 Option 1 would be to expand LAFCO 3229 to include the entire unincorporated island area, which is the exact same area as the previous annexation, LAFCO 3169.

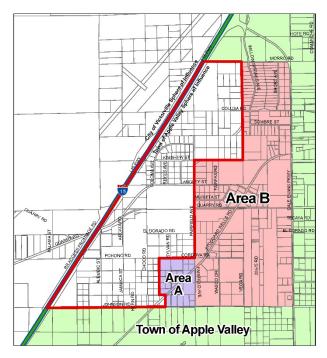
The entire area currently contains 59 registered voters. Given the fate of the previous annexation, LAFCO 3229 would most likely be terminated at the protest proceedings due to registered voter protest.

Therefore, Option 1 is not a viable option.



 Option 2 would expand LAFCO 3229 to include the southern notch westerly of Fairfield Avenue (Area A). This will make the boundary for LAFCO 3229 more logical since it takes in the entire portion westerly of Fairfield Avenue.

One problem with moving forward with this option is that the Town did not include Area A as part of its environmental assessment for the current proposal. Therefore, the Commission would have to prepare the environmental assessment for this additional area.

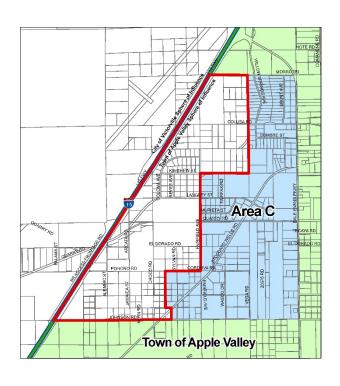


In addition, one would argue that this revised boundary—even though it provides for a more logical configuration—still does not address the rest of the island. Therefore, one option to address the remainder island is to require the Town to initiate the annexation of the remainder portion (Area B) as a separate proposal.

 Option 3 is to keep the boundary for LAFCO 3229 as submitted by the Town.

However, it should be noted that LAFCO staff's preference is to address the entirety of the island. Therefore, in order to address the remainder portion (Area C), LAFCO staff recommends that the Town be required to initiate the annexation of the remainder portion as a separate proposal.

The fate of the second proposal would then be decided by the registered voters and/or landowners within the entire Area C – separate and apart from the current proposal.



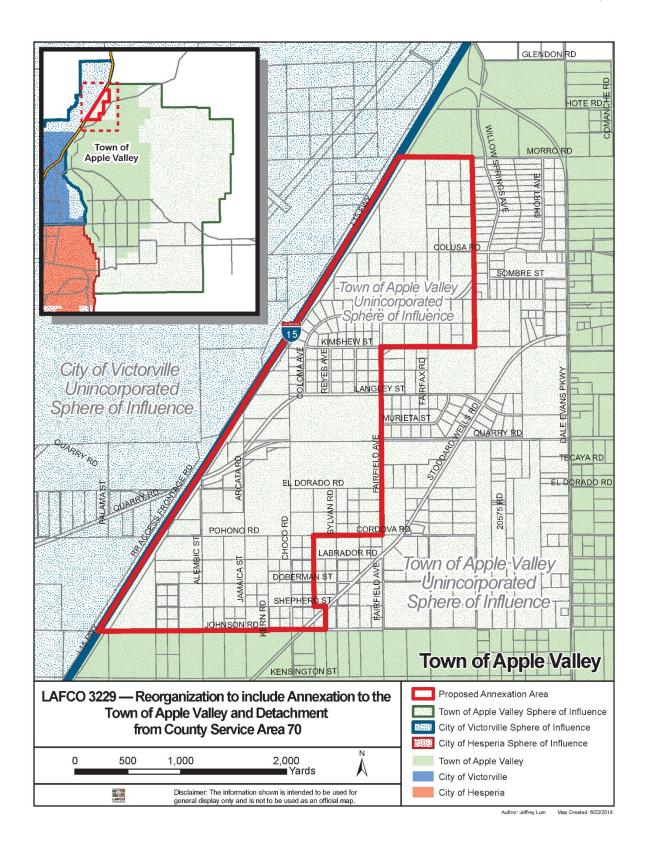
Based on the options outlined above, LAFCO staff recommends the Commission choose Option 3. It allows for the Town to move forward its proposal as submitted, and the Town can then work with landowners and registered voters within the remainder area as a separate proposal for annexation into the Town. Therefore, staff recommends the Commission include the following condition of approval for LAFCO 3229:

Condition – The Town of Apple Valley shall be required to initiate annexation of the remainder of the island within one year of the Commission's approval of LAFCO 3229. A resolution by the Town Council of the Town of Apple Valley shall be submitted to the Executive Officer of LAFCO outlining the Town's commitment to fulfilling this requirement prior to the issuance of the Certificate of Completion for LAFCO 3229. A status report shall be provided to the Commission at the six month date outlining the progress of the Town of Apple Valley in fulfilling its obligation. Failure on the part of the Town of Apple Valley to fulfill its commitment for annexation of the remainder island shall require that the next annexation proposed to the Town of Apple Valley, either by the Town through resolution or by property owner/registered voter petition, include a condition requiring the initiation of annexation of the reminder island. Said condition of approval shall be deemed completed upon the issuance of the Certificate(s) of Filing for the island.

Further, as identified in the early discussion related to boundaries, the proposal as submitted would create a totally surrounded island territory. However, the Commission has the statutory ability to waive the restrictions of creating an island as outlined in §56744 if it finds that the application of the restrictions would be detrimental to the orderly development of the community and that the area that would be enclosed by the annexation is so located that it cannot reasonably be annexed to another city or incorporated as a new city (§56375(m)).

LAFCO staff believes Commission denial of LAFCO 3229 could be detrimental to the orderly development of the area, particularly along the I-15 Freeway, and that the island area cannot be annexed to another city or incorporated as a new city. Therefore, if the Commission approves LAFCO 3229, the following determination will need to be made by the Commission pursuant to Government Code §56375(m):

Determination – The Commission determines that approval of LAFCO 3229 will create an unincorporated island completely surrounded by the Town of Apple Valley. Since the east side of Interstate 15 within the Town's unincorporated sphere cannot be developed in conformity with the Town's standards unless the area is annexed, the Commission determines, pursuant to the provision of Government Code Section 56375(m), to waive the restrictions on the creation of a totally surrounded island contained within Government Code Section 56744 because it would be detrimental to the orderly development of the community, and it further determines that the area to be surrounded cannot reasonably be annexed to another city or incorporated as a new city.



# **LAND USE:**

The existing County land use designations for the reorganization area include RL (Rural Living – one unit; minimum 2.5 acres) and RL-5 (Rural Living – one unit; minimum 5 acres). The land use designation tentatively proposed for this area in the Countywide Plan is Special Development, which the County anticipates to be consistent with the Town's anticipated land use plan.

The Town of Apple Valley has assigned the area pre-zone land use designations as a part of its General Plan Update, which include the following: Estate Residential (1 unit/1 to 2.5 acres), General Commercial (retail and services), Regional Commercial (retail, services, restaurant, and hotel/motel), Office Professional (office and ancillary retail), and Planned Industrial (warehousing, light manufacturing, research/development, and administrative). The Town's pre-zone designations will take effect upon completion of the reorganization process and must remain for a minimum of two years unless specific actions are taken by the Town Council.

County Land Use Services Department identifies a current planning project in the area for a minor use permit to construct a wireless communication facility and related equipment shelter. The Town provided a letter dated November 6, 2018 stating that it would accept the approved entitlement for the wireless communication facility with all related conditions of approval. The Town's letter also identifies acceptance of any ongoing code enforcement activities.

# SERVICE DELIVERY AND EFFECTS ON OTHER LOCAL GOVERNMENTS:

Upon completion of the reorganization, the area will receive services from the Town of Apple Valley including, but not limited to: sewer, roads, law enforcement, park and recreation, general government and other municipal type services. There will be no change in jurisdiction for the Mojave Water Agency (State Water contractor), Apple Valley Fire Protection District (fire protection/paramedic), Mojave Desert Resource Conservation District (portion), and County Service Area 60 (Apple Valley Airport).

The Town of Apple Valley has submitted a plan for the extension of its municipal services, including a Financial Impact Analysis, as required by law and Commission policy. The Plan and Analysis are included as a part of Attachment #2 to this report. In general, the Plan identifies the following:

# Wastewater

The Town of Apple Valley provides for the wastewater collection and transportation system within its boundaries. Due to the predominant vacant nature of the study area, no infrastructure for wastewater collection exists. Through annexation, the Town of Apple Valley will become responsible for the wastewater collection system; treatment and disposal would be provided by the Victor Valley Wastewater Reclamation Authority

(VVWRA), a joint powers entity. Currently, there are no sewer facilities in the reorganization area. In the future, wastewater collection services could be extended to the reorganization area upon request of property owners anticipating development and the payment of the infrastructure extension cost. A Town of Apple Valley regional interceptor line traverses approximately ½ mile east of the reorganization area.

# <u>Water</u>

An organized water service is not currently present within the study area. Water service is provided to the majority of the Town through the Liberty Utilities Company, a water utility governed by the California Public Utilities Commission ("PUC"). At present the study area is outside the certificated service area assigned Liberty Utilities, thus it would require an expansion in order to provide service. The expansion process is required to be undertaken through the PUC prior to approval and/or proceeding with development of the area. The Plan for Service documents for the proposal identify that all costs associated with providing water service would be the responsibility of future development within the area.

# Fire Protection and Paramedic

Fire protection and paramedic services are currently provided by the Apple Valley Fire Protection District, which will continue to serve the area following annexation.

# Law Enforcement

Law enforcement responsibilities will transfer from the San Bernardino County Sheriff's Department to the Town of Apple Valley, who contracts with the Sheriff's Department. Local traffic control will transition from the California Highway Patrol to the Town's contract with the County Sheriff.

#### Roads

County maintained roads within the area shall transfer to the Town of Apple Valley upon completion of LAFCO 3229.

# Solid Waste

The annexation area is currently undeveloped and generates no solid waste. Upon annexation, the Town of Apple Valley will be responsible for providing solid waste management services to future development in the annexation area. Burrtec Waste Industries provides the Town with solid waste collection and disposal services through its contractual agreement with Apple Valley. Solid waste collection and disposal services are provided on a fee basis to residential, commercial, and industrial customers.

# **Drainage**

The County Public Works Department requests a condition of approval that all existing drainage easements be transferred to the Town. While County maintained roads are transferred as a matter of law, in some instances the transfer of drainage easements has not taken place; therefore, the County requests that this be included in the Commission's decision specifically. Therefore, staff is recommending that this matter be included as a condition of approval for LAFCO 3229:

Condition – The Town of Apple Valley will accept the transfer of all previously offered or dedicated drainage easements within the affected area as shown on exhibits to the resolution of approval, which exclude any regional drainage facilities identified. The Town will assume authority over these drainage easements upon completion of LAFCO 3229.

# Fiscal Impact Analysis

The Town has included a Fiscal Impact Analysis, as required by Commission policy, which outlines the total potential costs and revenues to the Town. The cost/revenue analysis identifies that at each phase of buildout will have a positive cash flow position for the Town and the overlaying Apple Valley Fire Protection District. The materials identify the Town's continuing allocation of 3% of its ad valorem property tax share to the park and recreation fund, established after the dissolution of the Apple Valley Park and Recreation District and the designation of the Town as its successor agency.

As required by Commission policy and State law, the Plan for Service along with the Financial Impact Analysis, shows the ability of the Town of Apple Valley to extend its services to the area upon need through future development and to maintain existing services at the time of reorganization.

# **ENVIRONMENTAL CONSIDERATIONS:**

The Town of Apple Valley prepared an Addendum to the Environmental Impact Report (SCH#2008091077) for the Apple Valley 2009 General Plan and Annexation 2008-001.

The Town's environmental assessment, which includes the 2009 General Plan Environmental Impact Report and the Addendum, has been reviewed by the Commission's Environmental Consultant, Tom Dodson of Tom Dodson and Associates, who determined that, if the Commission chooses to approve LAFCO 3229, the Town's documents are adequate for Commission's use as a responsible agency under CEQA (California Environmental Quality Act). The following are the necessary environmental actions to be taken by the Commission as a responsible agency under CEQA:

 a. Certify that the Commission, its staff, and its Environmental Consultant have independently reviewed and considered the Town of Apple Valley's Addendum to the Environmental Impact Report (SCH#2008091077) prepared by the Town for the Apple Valley 2009 General Plan Amendment and Annexation 2008-001;

- Determine that the Town's environmental assessment are adequate for the Commission's use as a CEQA Responsible Agency for its consideration of LAFCO 3229;
- c. Determine that the Commission does not intend to adopt alternatives or additional mitigation measures for the project; that the mitigation measures identified in the Town's environmental documents are the responsibility of the Town and/or others, not the Commission; and,
- d. Direct the Executive Officer to file the Notice of Determination within five (5) days and find that no further Department of Fish and Wildlife filing fees are required by the Commission's approval of LAFCO 3229 since the Town of Apple Valley, as lead agency, has paid said fees.

# **CONCLUSION:**

LAFCO 3229 was submitted to bring planning, design, and construction of future development, including public roads, under the jurisdiction and direction of one entity, and provide proper control, orderly development, and logical growth in accordance with the Town of Apple Valley's General Plan.

LAFCO staff supports approval of LAFCO 3229 as the reorganization area will benefit from the full range of municipal services available through the Town of Apple Valley upon future development. Further, the east side of Interstate 15 within the Town's unincorporated sphere cannot be developed in conformity with the Town's standards unless the area is annexed.

However, approval of this proposal calls into question the issue related to creating the totally surrounded island territory. LAFCO staff has addressed this by:

- Including a determination required by Government Code § 56375(m), which can be applied to this proposal; and,
- Including a condition that requires the Town to initiate the remainder of the island within one year of the Commission's approval of LAFCO 3229.

For all the reasons outlined in the report above, staff recommends approval of LAFCO 3229.

# **DETERMINATIONS:**

The following determinations are required to be provided by Commission policy and Government Code Section 56668 for any change of organization/reorganization proposal:

- 1. The reorganization area is legally uninhabited containing zero registered voters as certified by the Registrar of Voters as of November 1, 2018.
- 2. The County Assessor's Office has determined that the total assessed valuation of land within the reorganization area is \$11,775,061 as of August 2, 2018, broken down as: \$11,033,461 (land) and \$741,600 (improvements).
- 3. The reorganization area is within the sphere of influence assigned the Town of Apple Valley.
- 4. Legal notice of the Commission's consideration of the proposal has been provided through publication in the *Daily Press*, a newspaper of general circulation within the area. As required by State law, individual notification was provided to affected and interested agencies, County departments, and those individuals and agencies having requested such notice.
- 5. In accordance with State law and adopted Commission policies, LAFCO staff has provided individual notice to:
  - landowners (206) and registered voters (0) within the reorganization area (totaling 206 notices), and
  - landowners (220) and registered voters (23) surrounding the reorganization area (totaling 243 notices).

To date, no written comments in support or opposition have been received. Comments from registered voters, landowners, and other individuals and any affected local agency in support or opposition will be reviewed and considered by the Commission in making its determination.

6. The Town of Apple Valley has assigned the reorganization area pre-zone land use designations as a part of its 2009 General Plan Update, which include the following: Estate Residential (1 unit/1 to 2.5 acres), General Commercial (retail and services), Regional Commercial (retail, services, restaurant, and hotel/motel), Office Professional (office and ancillary retail), and Planned Industrial (warehousing, light manufacturing, research/development, and administrative). These zoning designations are consistent with the Town's General Plan and is generally compatible with the surrounding land uses in the area. The Town's pre-zone designations will remain in effect for a minimum of two years following annexation unless specific actions are taken by the Town Council.

- 7. The Southern California Associated Governments ("SCAG") adopted its 2016-2040 Regional Transportation Plan and Sustainable Communities Strategy pursuant to Government Code Section 65080. LAFCO 3229 includes the eastern portion of the I-15 Freeway, which is part of the RTP-SCS's State highway improvement (expansion/rehabilitation) program including reconstruction of Stoddard Wells Road Overcrossing and as well as Stoddard Wells Road.
- 8. As CEQA responsible agency, the Commission's Environmental Consultant, Tom Dodson of Tom Dodson and Associates, has reviewed the Town of Apple Valley's environmental documents for the reorganization proposal and has indicated that the Town's environmental documents for the reorganization proposal are adequate for the Commission's use as CEQA responsible agency. The Town of Apple Valley prepared an Addendum to the Environmental Impact Report (SCH#2008091077) for the Town of Apple Valley 2009 General Plan and Annexation 2008-001.
- 9. The reorganization area is served by the following local agencies:

Apple Valley Fire Protection District
County of San Bernardino
County Service Area 60 (airport)
County Service Area 70 (unincorporated County-wide multi-function)
Mojave Desert Resource Conservation District (portion)
Mojave Water Agency

County Service Area 70 will be detached upon successful completion of this proposal. None of the other agencies will be directly affected by the completion of this proposal through an adjustment in their boundaries as they are regional in nature.

10. The Town of Apple Valley has submitted a plan for the extension of municipal services to the study area, as required by law, along with a Financial Impact Analysis required by Commission policy. These plans are included as a part of Attachment #2 to this report and indicate that the Town can maintain and/or improve the level and range of services currently available in the area.

The Plan for Service and Fiscal Impact Analysis have been reviewed and compared with the standards established by the Commission and the factors contained within Government Code Section 56668. The Plan for Service and the Fiscal Impact Analysis conform to those adopted standards and requirements.

11. The reorganization proposal complies with Commission policies that indicate the preference for areas proposed for development at an urban-level land use to be included within a Town or City so that the full range of municipal services can be planned, funded, extended and maintained.

However, the approval of this proposal will create an island of unincorporated territory to be totally surrounded by the Town. Based on the termination of LAFCO 3169 in 2012 due to registered voter protest, LAFCO 3229 cannot be expanded to eliminate the island area without the risk of terminating again.

- 12. The reorganization area can benefit from the availability and extension of municipal services from the Town of Apple Valley upon future development.
- 13. This proposal will assist the Town of Apple Valley's ability to achieve its fair share of the regional housing needs as the land use designations for the area include Estate Residential, which allows one unit to 2.5 acres.
- 14. With respect to environmental justice, which is the fair treatment of people of all races, cultures, and incomes with respect to the location of public facilities and the provision of public services, the following demographic and income profile was generated using ESRI's Community Analyst within the Town of Apple Valley and within and around the reorganization area (2018 data):

Demographic and Income Comparison	Town of Apple Valley (%)	Reorganization Area and
	(73)	Unincorporated Sphere (%)
Race and Ethnicity		. , ,
African American Alone	9.3 %	8.5 %
<ul> <li>American Indian Alone</li> </ul>	1.2 %	0.8 %
<ul> <li>Asian Alone</li> </ul>	3.4 %	5.9 %
<ul> <li>Pacific Islander Alone</li> </ul>	0.5 %	0.8 %
<ul> <li>Hispanic Origin (Any Race)</li> </ul>	39.5 %	25.4 %
Median Household Income	\$55,261	\$82,990

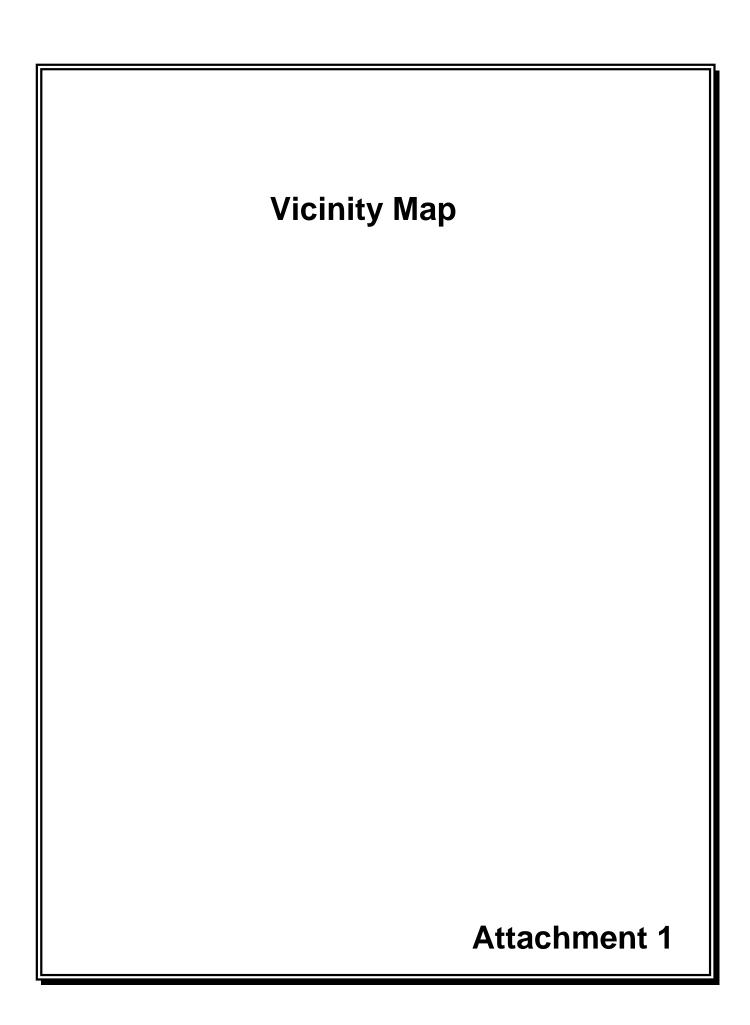
Through future development, the reorganization area will benefit from the extension of services and facilities from the Town and, at the same time, the approval of the reorganization proposal will not result in the unfair treatment of any person based on race, culture or income.

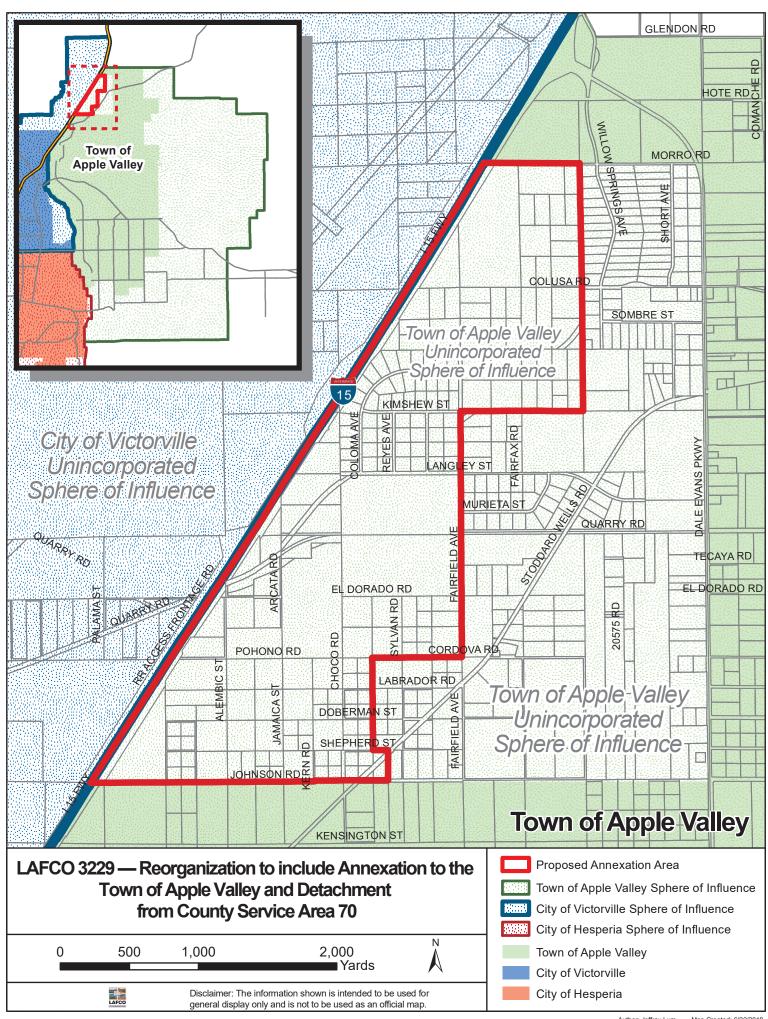
- 15. The County of San Bernardino and the Town of Apple Valley have successfully negotiated a transfer of property tax revenues that will be implemented upon completion of this annexation. This fulfills the requirements of Section 99 of the Revenue and Taxation Code.
- 16. The map and legal description, as revised, are in substantial compliance with LAFCO and State standards through certification by the County Surveyor's Office.

SM/MT

#### Attachments:

- 1. Vicinity Map
- 2. Application and Plan for Service
- 3. Environmental Response from Tom Dodson and the Town's Addendum to the Environmental Impact Report (SCH#2008091077) for the Apple Valley 2009 General Plan and Annexation 2008-001
- 4. Draft Resolution No. 3280





# Application and Plan for Service

**Attachment 2** 

(FOR LAFCO USE ONLY)

## SAN BERNARDINO LAFCO APPLICATION AND PRELIMINARY ENVIRONMENTAL DESCRIPTION FORM

INTRODUCTION: The questions on this form and its supplements are designed to obtain enough data about the application to allow the San Bernardino LAFCO, its staff and others to adequately assess the proposal. By taking the time to fully respond to the questions on the forms, you can reduce the processing time for your proposal. You may also include any additional information which you believe is pertinent. Use additional sheets where necessary, or attach any relevant documents.

#### **GENERAL INFORMATION**

NAME OF APPI	LICANT: Town of Apple Valley, CA
APPLICANT TY	PE: Landowner 📓 Local Agency
	Registered Voter Other
MAILING ADDR 14955 Dale Ev	
Apple Valley,	CA 92307
PHONE:	(760 ) 240-7000 ext. 7200
FAX:	(760 ) 240-7399
E-MAIL ADDRE	Ilamson@applevalley.org
GENERAL LOC	CATION OF PROPOSAL: Annexation 2018-001 encompasses approxima
GENERAL LOC 1,304 acres ger	CATION OF PROPOSAL: Annexation 2018-001 encompasses approximate nerally bounded by Interstate-15 on the west, Johnson Road on the south, d (extended ) on the north.
GENERAL LOC 1,304 acres ger and Morro Road Does the applic	CATION OF PROPOSAL: Annexation 2018-001 encompasses approximation and approximation 2018-001 encompasses approximation and approximation possess 100% written consent of each landowner in the subject territarians.
GENERAL LOC  1,304 acres ger and Morro Road  Does the applic YES NO	CATION OF PROPOSAL: Annexation 2018-001 encompasses approximation and provided by Interstate-15 on the west, Johnson Road on the south, d (extended ) on the north.  Eation possess 100% written consent of each landowner in the subject territion. If YES, provide written authorization for change.
GENERAL LOC  1,304 acres ger and Morro Road  Does the applic YES NO	CATION OF PROPOSAL: Annexation 2018-001 encompasses approximation and proposed action possess 100% written consent of each landowner in the subject territion proposed action has been requested. Lands are within the subject territion.
GENERAL LOC  1,304 acres ger and Morro Road  Does the applic YES NO [ Indicate the rea Town's sphere-	CATION OF PROPOSAL: Annexation 2018-001 encompasses approximation and provided by Interstate-15 on the west, Johnson Road on the south, d (extended ) on the north.  Eation possess 100% written consent of each landowner in the subject territion. If YES, provide written authorization for change.

### LAND USE AND DEVELOPMENT POTENTIAL

Total land area of subject territory (defined in acres): Approximately 1,304 acres
Current dwelling units within area classified by type (single-family residential, multi-family [duplex, four-plex, 10-unit], apartments)  The annexation area is undeveloped and contains no dwelling units.
Approximate current population within area: The annexation area is undeveloped and has no residents.
Indicate the General Plan designation(s) of the affected city (if any) and uses permitted by this designation(s):
The Town of Apple Valley General Plan designates land in the annexation area as follows:  Estate Residential (1 du/1 - 2.5 gross acres); General Commercial (retail, services); Regional Commercial (retail, services, restaurant, hotel/motel); Office Professional (office, ancillary retail);  Planned Industrial (warehousing, light manufacturing, research/development, administrative)
San Bernardino County General Plan designation(s) and uses permitted by this designation(s):  Rural Living (rural residences, incidental agriculture, other compatible uses)
Rural Living 5-acre minimum (rural residences, incidental agriculture, other compatible uses)
Describe any special land use concerns expressed in the above plans. In addition, for a City Annexation or Reorganization, provide a discussion of the land use plan's consistency with the regional transportation plan as adopted pursuant to Government Code Section 65080 for the subject territory;  Apple Valley General Plan land use designations provide for more intensive land uses than the San Bernardino County General Plan; these have been addressed in the EIR Addendum. The proposed land use plan will not conflict with projects, goals, or guiding policies of the regional transportation plan (RTP). Buildout will contribute minimally to the Town population and RTP growth forecasts. The annexation area is immediately adjacent to
1-15, within one mile of two existing interchanges, and primary access will be provided by existing roadways.  Indicate the existing use of the subject territory.
The annexation area consists of 100% undeveloped lands with several paved and unpaved roads.
What is the proposed land use?
Proposed land uses are Apple Valley General Plan land use designations
described in No. 4, above. Development will consist of single family residences,
commercial development and planned industrial projects.
Will the proposal require public services from any agency or district which is currently operating at or near capacity (including sewer, water, police, fire, or schools)? YES NO If YES, please explain.

8.		owing list, indicate if any porti next to the item:	ion of the territo	ry contains the fo	ollowing by p	lacing	a
	☐ Ag	ricultural Land Uses		Agricultural Pro	eserve Desig	gnation	
	☐ Wi	lliamson Act Contract	X	Area where Sp	ecial Permit	s are F	Required
	☐ Ar	y other unusual features of the	he area or perm	its required:			to the the thirty the service of the property of
		velopment with the poten 602 Streambed Alteration					
9.	The extent "environme	narrative response to the follo to which the proposal will pre- ental justice" means the fair t the location of public facilities	omote environm reatment of peo	ental justice. As ple of all races, o	used in this cultures, and	subdiv	islon,
		kation area is currently undev					
		in an orderly manner based o					
		/ monitors and plans for serv ulation are fairly served.	ice needs within	i its doundaries t	o assure tna	t all se	gments
	or the pop	alation are rainy corrott					
		ENVIRONA	MENTAL INFOR	RMATION			
1.	Provide ge	neral description of topograp	ohy.				
	The anne	exation area consists of ge t. Elevations range from 3	nerally flat des ,000 to 3,140 f	sert land that sl eet above mea	opes gently In sea level	to the	3
2.	Describe a	any existing improvements or	n the subject ter	ritory as <u>% of tot</u>	al area.		
	Residentia	ıl%	Agrica	ultural			_%
	Commerci	al%	Vacar	nt		98	%
	Industrial	%	Other		(roads)	2	%
3,	Describe t	he surrounding land uses:					
	NORTH	Vacant (Town of A	pple Valley)	, , , , , , , , , , , , , , , , , , ,			····
	EASŢ	Scattered single-family re	esidences, vacant	(unincorporated Sa	an Bernardino	County)	<u> </u>
	SOUTH	Vacant (Town of A	pple Valley)				_
	WEST	U.S. Interstate-15, vac	ant beyond (uni	ncorporated San	Bernardino (	County)	<u>)</u>
4.	Describe : proposed	site alterations that will be pro action (installation of water fa	oduced by impro acilities, sewer f	ovement projects acilities, grading	s associated , flow channe	with th	ís n, etc.).
	Future de	evelopment will require grac	ling and extens	ion of roadways	s, water, sev	ver, sto	ormwater
	manager	nent, and other utility infrast	tructure. No de	velopment proje	ects are curr	ently p	roposed.

5.	Will service extensions accomplished by this proposal induce growth on this site? YES ■ NO □ Adjacent sites? YES ■ NO □ Unincorporated ■ Incorporated			
0	The annexation, in and of itself, will not directly induce growth. However, annexation will facilitate future growth consistent with the Apple Valley General Plan land use plan, which allows development at higher densities than currently allowed by the County General Plan. The annexation area is adjacent to regional transportation (I-15) and in proximity to existing urban uses (residences, employment) to the south and east. The land use plan optimizes existing infrastructure and is compatible with nearby land uses.			
6.	Are there any existing out-of-agency service contracts/agreements within the area? YES NO If YES, please identify.			
	Fire protection and emergency response services are currently provided to the annexation area by the Apple Valley Fire Protection District (AVFPD).			
7.	Is this proposal a part of a larger project or series of projects? YES NO If YES, please explain.			
	The currently proposed annexation is consistent with the Town's General Plan long term vision, by providing opportunities for economic development and employment growth. The annexation area will allow direct access to the I-15 corridor for Town businesses and residents, and provide a direct connection from the Town's traditional center to the south to the broader region to the north and south. Employment growth will be fostered by the additional commercial and industrial lands proposed.  NOTICES			
	provide the names and addresses of persons who are to be furnished mailed notice of the hearing(s) ceive copies of the agenda and staff report.			
	Lori Lamson TELEPHONE NO. (760)240-7000			
	ESS: 14955 Dale Evans Parkway, Apple Valley, CA 92307			
 NAME	Nicole Sauviat Criste TELEPHONE NO. (760)341-4800			
ADDR	ESS: 42635 Melanie Place, Suite 101, Palm Desert, CA 92211			
NAME	TELEPHONE NO.			
ADDR	ESS:			
	CERTIFICATION			
Distric	eart of this application, the City/Town of Apple Valley or the n/a // (real party in t/Agency, (the applicant) and/or the n/a (real party in st - landowner and/or registered voter of the application subject property) agree to defend, indemnify, armless, promptly reimburse San Bernardino LAFCO for all reasonable expenses and attorney fees,			

(FOR LAFCO USE ONLY)

(FOR LAFCO USE	E ONLY	"
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and release San Bernardino LAFCO, its agents, officers, attorneys, and employees from any claim, action, proceeding brought against any of them, the purpose of which is to attack, set aside, void, or annul the approval of this application or adoption of the environmental document which accompanies it.

This indemnification obligation shall include, but not be limited to, damages, penalties, fines and other costs imposed upon or incurred by San Bernardino LAFCO should San Bernardino LAFCO be named as a party in any litigation or administrative proceeding in connection with this application.

As the person signing this application, I will be considered the proponent for the proposed action(s) and will receive all related notices and other communications. I understand that if this application is approved, the Commission will impose a condition requiring the applicant and/or the real party in interest to indemnify, hold harmless and reimburse the Commission for all legal actions that might be initiated as a result of that approval.

I hereby certify that the statements furnished above and in the attached supplements and exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief.

DATE 5/22/18	Fay Jamen
	Lori Lamson
	Printed Name of Applicant or Real Property in Interest (Landowner/Registered Voter of the Application Subject Property)
	Assistant Town Manager, Town of Apple Valle

PLEASE CHE	CK SUPPLEMENTAL FORMS ATTACHED:
X	ANNEXATION, DETACHMENT, REORGANIZATION SUPPLEMENT
	SPHERE OF INFLUENCE CHANGE SUPPLEMENT
	CITY INCORPORATION SUPPLEMENT
	FORMATION OF A SPECIAL DISTRICT SUPPLEMENT
	ACTIVATION OR DIVESTITURE OF FUNCTIONS AND/OR SERVICES FOR SPECIAL
	DISTRICTS SUPPLEMENT

KRM-Rev. 8/19/2015

# SUPPLEMENT ANNEXATION, DETACHMENT, REORGANIZATION PROPOSALS

**INTRODUCTION:** The questions on this form are designed to obtain data about the specific annexation, detachment and/or reorganization proposal to allow the San Bernardino LAFCO, its staff and others to adequately assess the proposal. You may also include any additional information which you believe is pertinent. Use additional sheets where necessary, and/or include any relevant documents.

ANNEXED TO Town of Apple Valley	DETACHED FROM San Bernardino County
	San Bernardino County CSA No. 70
For a city annexation, State law requiresponse to the following:	res pre-zoning of the territory proposed for annexation. P
<ul><li>a. Has pre-zoning been complet</li><li>b. If the response to "a" is NO, is</li></ul>	ed? YES NO C
underway, identify the timing for comp Estate Residential (1 du/1 - 2.5 gross	ation, title, and densities permitted. If the pre-zoning proc eletion of the process. acres); General Commercial; Regional Commercial; Offic
Professional; Planned Industrial	acros, acrieral commercial, riegional commercial, one
Professional; Planned Industrial Please see attached Ordinance 406.	acros, acriciai commerciai, riogionai commerciai, omi
Please see attached Ordinance 406.  For a city annexation, would the proposition of the proposition of the proposed annexation area is the work of the proposed annexation area. The proposed would allow a consistent with their vote, while providing improvement in the area. It is adjacent to the proposed would allow a consistent with their vote, while providing the provid	osal create a totally or substantially surrounded island of ride a written justification for the proposed boundary estern portion of the previously proposed Annexation 2008-001 or proposed annexation area and approx.  s ultimately denied by a vote of registered voters residing in the those residents (and 1,470 acres) to remain in the County, g the Town opportunities for economic development and service to Town boundaries on both the north and south.
Please see attached Ordinance 406.  For a city annexation, would the proposition of the proposition of the proposed annexation area is the work of the proposed annexation area. The proposed would allow area. The current proposal would allow of the providing improvement in the area. It is adjacent to the providing t	osal create a totally or substantially surrounded island of ride a written justification for the proposed boundary estern portion of the previously proposed Annexation 2008-001 or proposed annexation area and approx.  s ultimately denied by a vote of registered voters residing in the chose residents (and 1,470 acres) to remain in the County, go the Town opportunities for economic development and services a Town boundaries on both the north and south.  In the county of the c
Please see attached Ordinance 406.  For a city annexation, would the proposition of the proposed annexation area is the weal 2,774.6 ac), which included the currently of the proposed annexation area is the weal of the proposed annexation area. It is adjacent to the proposed for charman assessment districts, or fees?  Future development in the annexation area is the weal of the proposed for charman assessment districts, or fees?	psal create a totally or substantially surrounded island of cride a written justification for the proposed boundary estern portion of the previously proposed Annexation 2008-001 or proposed annexation area and approx.  Is ultimately denied by a vote of registered voters residing in the chose residents (and 1,470 acres) to remain in the County, go the Town opportunities for economic development and services to Town boundaries on both the north and south.  Inge be subject to any new or additional special taxes in area will be subject to the developer impact fees.
Please see attached Ordinance 406.  For a city annexation, would the proposition of the proposition of the proposition of the proposed annexation area is the wealth of the proposed annexation of the proposed annexation of the proposed annexation area is the wealth of the proposed annexation area is the wealth of the proposed annexation area is the wea	psal create a totally or substantially surrounded island of ride a written justification for the proposed boundary estern portion of the previously proposed Annexation 2008-001 proposed annexation area and approx.  s ultimately denied by a vote of registered voters residing in the chose residents (and 1,470 acres) to remain in the County, go the Town opportunities for economic development and service to Town boundaries on both the north and south.  Inge be subject to any new or additional special taxes

(FOR	LA	<b>AFCO</b>	USE	ONLY)

5.	fees required by the agencies to be detached?
	The annexation area will be detached from County Service Area 70; however, it does not fund
	any services currently provided to the territory. Therefore, the territory will not be relieved of any
	existing special taxes, assessments, charges, or fees.
6.	If a Williamson Act Contract(s) exists within the area proposed for annexation to a City, please provide a copy of the original contract, the notice of non-renewal (if appropriate) and any protest to the contract filed with the County by the City. Please provide an outline of the City's anticipated actions with regard to this contract.  There are no Williamson Act Contracts within the proposed annexation area.
7.	Provide a description of how the proposed change will assist the annexing agency in
1.	achieving its fair share of regional housing needs as determined by SCAG.
	The annexation will have no impact on the Town's ability to achieve its RHNA housing needs for this planning period, as that is
	being provided for in the current Town limits. Sufficient sites are identified in the Housing Element to accommodate the Town's RHNA allocation.

#### 8. PLAN FOR SERVICES:

For each item identified for a change in service provider, a narrative "Plan for Service" (required by Government Code Section 56653) must be submitted. This plan shall, at a minimum, respond to each of the following questions and be signed and certified by an official of the annexing agency or agencies.

A. A description of the level and range of each service to be provided to the affected territory.

The land use plan for the annexation area accommodates detached single-family residential units on lots of 1 to 2 1/2

gross acres, consistent with the rural character of the Town, and will not directly affect RHNA needs.

- B. An indication of when the service can be feasibly extended to the affected territory.
- C. An identification of any improvement or upgrading of structures, roads, water or sewer facilities, other infrastructure, or other conditions the affected agency would impose upon the affected territory.
- D. The Plan shall include a Fiscal Impact Analysis which shows the estimated cost of extending the service and a description of how the service or required improvements will be financed. The Fiscal Impact Analysis shall provide, at a minimum, a five (5)-year projection of revenues and expenditures. A narrative discussion of the sufficiency of revenues for anticipated service extensions and operations is required.

- E. An indication of whether the annexing territory is, or will be, proposed for inclusion within an existing or proposed improvement zone/district, redevelopment area, assessment district, or community facilities district.
- F. If retail water service is to be provided through this change, provide a description of the timely availability of water for projected needs within the area based upon factors identified in Government Code Section 65352.5 (as required by Government Code Section 56668(k)).

#### CERTIFICATION

As a part of this application, the City/Town of Apple Valley, or the n/a (real party in interest - landowner and/or registered voter of the application subject property) agree to defend, indemnify, hold harmless, promptly reimburse San Bernardino LAFCO for all reasonable expenses and attorney fees, and release San Bernardino LAFCO, its agents, officers, attorneys, and employees from any claim, action,
proceeding brought against any of them, the purpose of which is to attack, set aside, void, or annul the approva of this application or adoption of the environmental document which accompanies it.
This indemnification obligation shall include, but not be limited to, damages, penalties, fines and other costs imposed upon or incurred by San Bernardino LAFCO should San Bernardino LAFCO be named as a party in any litigation or administrative proceeding in connection with this application.
As the person signing this application, I will be considered the proponent for the proposed action(s) and will receive all related notices and other communications. I understand that if this application is approved, the Commission will impose a condition requiring the applicant and/or the real party in interest to indemnify, hold harmless and reimburse the Commission for all legal actions that might be initiated as a result of that approval.
As the proponent, I acknowledge that annexation to the City/Town of Apple Valley  n/a  District/Agency may result in the imposition of taxes, fees, and assessments existing within the (city or district) on the effective date of the change of organization. I hereby waive any rights I may have under Articles XIIIC and XIIID of the State Constitution (Proposition 218) to a hearing, assessment ballot processing or an election on those existing taxes, fees and assessments.
I hereby certify that the statements furnished above and the documents attached to this form present the data and information required to the best of my ability, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief.
DATE 5/22/18  LOVI LAMSON
Printed Name of Applicant or Real Property in Interest (Landowner/Registered Voter of the Application Subject Property)

Assistant Town Manager-Town of Apple Valley

Title and Affiliation (if applicable)

# PLAN FOR PROVISION OF MUNICIPAL SERVICES ANNEXATION 2018-001 TO THE TOWN OF APPLE VALLEY

## Prepared for:

Town of Apple Valley 14955 Dale Evans Parkway Apple Valley, CA 92307

# Prepared by:

Terra Nova Planning & Research, Inc.<sup>®</sup>
 42635 Melanie Place, Suite 101
 Palm Desert, CA 92211

# **TOWN OF APPLE VALLEY**

# **Annexation 2018-001**

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#### I. INTRODUCTION

The San Bernardino County Local Agency Formation Commission (LAFCO) requires the preparation of a Plan of Services (POS) to evaluate all proposed annexations. The POS describes existing services provided within the annexation area and identifies the jurisdiction or other agency that provides them. It also discusses services to be provided to the annexation area by the Town of Apple Valley and other applicable service providers upon annexation.

In 2008, a POS was prepared for Annexation No. 2008-001 to the Town of Apple Valley. The voters did not approve the annexation, and the annexation area was not incorporated into the Town. The POS contained herein evaluates a newly proposed annexation area that covers the western portion of the Annexation No. 2008-001 (see Exhibit 3). The proposed annexation area is within the Town of Apple Valley Sphere of Influence. It is northwest of the Town and adjacent to the U.S. Interstate-15 transportation corridor, both of which are areas where urban development is expected to occur and intensify in the future. Its southern and northern boundaries are contiguous to the Town corporate limits.

The purpose of this annexation application is to provide a means by which to accomplish comprehensive and orderly planning for future development, while ensuring the efficient and adequate provision of services to the site. The most efficient provision of municipal services and the extension of utilities, as well as the use of public facilities, would be by the Town. The Apple Valley General Plan provides for the extension of public facilities and utility services to the proposed annexation area.

The POS identifies the following:

- Public facilities and service providers that will be responsible for various facilities to serve the annexation area;
- Whether these services are currently available in the annexation area;
- Where applicable, extension of services has been considered, and costs that may be associated with the provision of service.

The annexation area will be provided services by the following providers:

- Liberty Utilities Apple Valley for domestic water
- Town of Apple Valley for sanitary sewer service
- Apple Valley Unified School District for public educational services
- San Bernardino County Newton T. Bass Apple Valley Library for public library services
- AVCO Disposal, a Burrtec Waste Industries company, for solid waste management

- Apple Valley Police Department/San Bernardino County Sheriff's Department for police protection
- Apple Valley Fire Protection District for primary fire services
- Town of Apple Valley for parks/recreation services and facilities
- Southern California Edison for electricity
- Southwest Gas Company for natural gas
- Frontier and Charter Spectrum for telephone and telecommunications
- St. Mary Medical Center for hospital services; American Medical Response (AMR) for ambulance services

Section III describes each of the services that will be provided by the respective service provider. Existing facilities available to serve the annexation area are discussed, and costs associated with extending services and facilities to serve the site are identified where possible.

#### II. COMMUNITY SETTING

#### A. Annexation Area

The Town of Apple Valley proposes the annexation of 1,304± acres of land currently under the jurisdiction of the County of San Bernardino. The proposed annexation area is in the northwest portion of the Town's Sphere of Influence and generally bounded on the north by Morro Road (extended), on the south by Johnson Road, on the west by U.S. Interstate-15 (I-15), and on the east by various parcels west of Stoddard Wells Road and Dale Evans Parkway. The location of the annexation area is shown on Exhibits 1 and 2. Exhibit 3 shows the boundaries of the currently proposed annexation compared to the previously proposed Annexation 2008-001.

The annexation area may be described as including: a portion of Sections 5, 6, 7, 8, and 18, Township 6 North, Range 3 West; and a portion of Section 13, Township 6 North, Range 4 West of the San Bernardino Base and Meridian. A list of Assessor's Parcel Numbers (APNs) in the annexation area is provided in Appendix A.

The entire annexation area consists of undeveloped desert land, with the exception of several paved and unpaved roads that traverse the area. As previously noted, the northern and southern boundaries of the annexation area are adjacent to the Town's boundaries. Land to the immediate east is sparsely developed with scattered residential units. I-15 forms the annexation area's western boundary and separates it from vacant land to the west.





# **SAN BERNARDINO COUNTY**



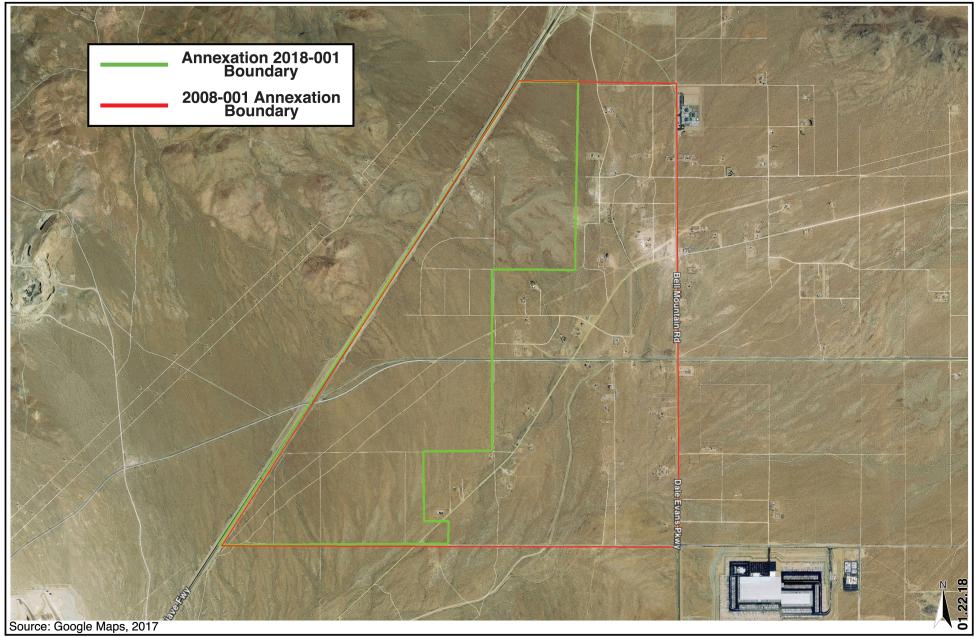




TERRA NOVA

PLANNING & RESEARCH, INC.

Annexation 2018-001 - Plan of Services Vicinity Map Apple Valley, California Exhibit





Annexation 2018-001 - Plan of Services
Annexation 2018-001 and Annexation 2008-001 Boundary Map
Apple Valley, California

**Exhibit** 

3

#### **B.** Planning Area Context

The Town of Apple Valley's corporate boundaries cover approximately 78 square miles.<sup>1</sup> An additional 200± square miles comprise the Town's Sphere of Influence. Apple Valley is situated in the high desert region of southwest San Bernardino County, near the foothills of the San Bernardino Mountains, which lie to the south. Other jurisdictions in the region include the City of Victorville to the west, City of Hesperia to the southwest, City of Adelanto to the northwest, and unincorporated community of Lucerne Valley to the east.

The Town has developed most densely along major roadways, including State Highway 18, which extends southeast to northwest through Apple Valley; and Bear Valley Road, which is located south of Highway 18 and runs east to west. North of Highway 18 to Waalew Road, the existing development pattern becomes gradually less dense. North of Waalew Road, existing development is scattered and relatively limited in most areas; however, the North Apple Valley Industrial Specific Plan (NAVISP) provides for substantial future industrial and commercial development in this area. Existing development in the NAVISP area includes the Apple Valley Airport and the Walmart Distribution Center, as well as a number of smaller industrial buildings and projects. Some development has occurred on Dale Evans Parkway, which is east of the annexation area and provides direct access to I-15.

The I-15 corridor borders the Town and annexation area in a generally southwest to northeast direction. It connects the region with Los Angeles and other markets to the south, and Barstow, Las Vegas, and Salt Lake City to the north.

#### C. Physical Characteristics

The proposed annexation area is characterized by expanses of vacant desert and several paved and unpaved roadways. Its topography is relatively flat, with elevations ranging from approximately 3,000 feet to 3,160 feet above mean sea level. Dry washes, part of the regional drainage of the area, occur throughout the annexation area.

#### **D.** Population Estimates

In 2010, the Town of Apple Valley population was 69,135; by 2017 it was estimated at 74,701.<sup>2</sup> The average household size is 2.91.<sup>3</sup>

The annexation area is undeveloped and has no residents.

9

<sup>1</sup> http://www.applevalley.org

U.S. Census 2010; and California Department of Finance City/County Population and Housing Estimates, January 1, 2017.

<sup>&</sup>lt;sup>3</sup> U.S. Census 2010.

#### III. EXISTING AND PROPOSED SERVICES

#### A. Administrative Services/General Government

#### County of San Bernardino

The annexation area is currently under the jurisdiction of San Bernardino County. General government services include the County Supervisor's office, Clerk of the Board of Supervisors, County Administrative Offices, and County Counsel. The Board of Supervisors is the governing body of the County government and Board-governed special districts. The annexation area is in the First Supervisorial District of the County, which is currently represented by Supervisor Robert Lovingood.

Duties of the Clerk of the County Board of Supervisors include handling appeals made by members of committees, commissions and boards to the Board of Supervisors. The Clerk also records documents, including CEQA documentation and other items. The Clerk serves the entire County, including the annexation area.

County administrative offices establish and administer policy, manage various County departments, and coordinate the County budget. The County Counsel's office oversees all legal aspects of County government, including providing legal representation in court, prosecutions on behalf of the County, providing legal advice and interpretation, and handling all necessary legal processes. The Counsel serves the entire County.

#### *Town of Apple Valley*

Upon annexation, the annexation area would become part of the Town of Apple Valley. General government services include the Town Council, Town Manager, Town Clerk, Town Administrative Offices, including Public Services Administration, and Town Attorney. The Town Council consists of five council members with the mayor as presiding officer. No new council representation will be required upon annexation.

The Town Manager is responsible for the administrative affairs of the Town, including managing Town services and implementing programs and activities as directed by the Town Council. Other managerial responsibilities include monitoring and advising the Council of all state and federal legislation that concern the Town. The Town Manager and staff serve the entire Town, and will serve the annexation area. No additional personnel are expected to be required in the Town Manager's office as a result of the annexation.

The Town Clerk maintains the Town's official records, including Town Council official minutes. The Clerk performs duties required by the California Political Reform Act, which created the California Fair Political Practices Commission (FPPC). The Clerk serves as the Town's Election Official and Notary Public, and maintains the Municipal Code. The Clerk's office also serves as a Passport office. The Clerk and staff serve the entire Town, and will serve the annexation area. No additional personnel are expected to be required in the Clerk's office to serve the annexation area.

The Town's General Government offices and services include the following:

- Human Resources Department, including Risk Management
- Public Information Office
- Finance Department
- Animal Services
- Economic and Business Development Department
- Police Department
- Community Development Department, including planning, housing, and code enforcement services
- Parks & Recreation Department
- Public Services Department
- Office of Emergency Preparedness
- Building & Safety Department
- Public Works Department, including street maintenance, wastewater, and grounds maintenance
- Engineering Department
- Environmental & Transit Services
- Apple Valley Golf Course administration

The Community Resource Foundation, a non-profit public benefit corporation, supports and promotes cultural, recreational, and human services needs in Apple Valley.

#### **B.** Wastewater Treatment

There are currently no wastewater collection or treatment facilities in the annexation area. Upon annexation, the Town of Apple Valley would be responsible for providing wastewater services as the area builds out. The Town owns and operates the local wastewater collection system, which serves more than 22,000 residents. The sewer system consists of approximately 145 miles of sewer pipe infrastructure, 9 lift stations, and 9 miles of force mains. It is relatively new and does not cover the entire Town; approximately 70% of developed residential areas have not been connected to the sewer system and still rely on septic systems.

The Town is a member of the Victor Valley Wastewater Reclamation Authority (VVWRA), a joint powers authority that includes the Town of Apple Valley, City of Hesperia, City of Victorville, and San Bernardino County Service Areas 42 (Oro Grande) and 64 (Spring Valley Lake). Although the Town of Apple Valley maintains ownership, operation, and maintenance of its sewer system, VVWRA maintains regional intercept lines that collect and transport wastewater from Town pipelines to a regional wastewater treatment plant in Victorville. The Victorville wastewater treatment plant treats approximately 10.7 million gallons per day (MGD),<sup>4</sup> and has a design and treatment capacity of 18 MGD. Overall capacity is expected to be expanded to 22 MGD by 2020 and 30 MGD by 2025.<sup>5</sup>

<sup>5</sup> "Victor Valley Wastewater Reclamation Authority Sewer Plan, Adopted Policy for Serving the Growth of the Community," August 2005.

http://www.vvwra.com, accessed September 21, 2017.

The Apple Valley Subregional Water Reclamation Plant near Brewster Park is a new facility that will treat a portion of locally generated wastewater, while all solids and other wastewater will continue to be treated at the Victorville treatment plant. The new plant will produce about one million gallons per day of recycled water to be used for irrigation of the Apple Valley Golf Course and other irrigated spaces.<sup>6</sup>

Although there are currently no local sewer facilities in the annexation area, the Northern Apple Valley Interceptor (NAVI) is located approximately ½-mile to the east. The NAVI is a 38,925-foot long sewer pipeline with diameters ranging from 18 to 24 inches. It extends from the High Desert Juvenile Detention Center at the intersection Dale Evans Parkway and Morro Road in the north, south along Stoddard Wells Road, and southwest beyond Interstate-15 to the Victorville sewer collection system. Currently, its only connection is the Detention Center.

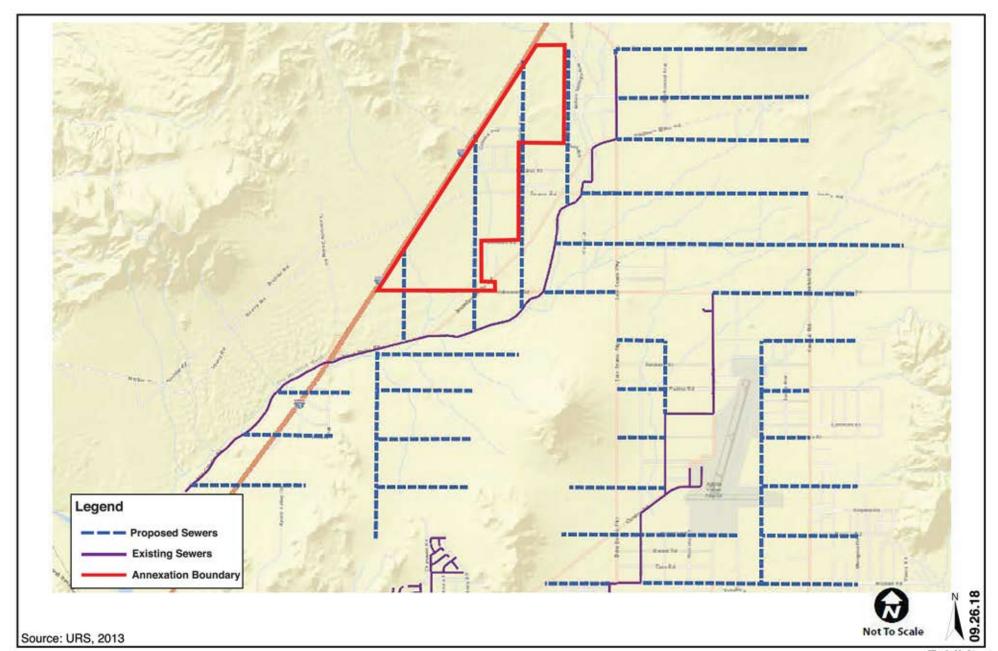
The Apple Valley Sewer System Master Plan Update evaluated the adequacy of the Town's sewer system based on the assumption that the Town will develop according to land use projections defined in the 2009 General Plan. These projections include build out of the Golden Triangle area ("previously denied" Annexation 2008-001), which encompasses the currently proposed annexation area plus an additional 1,200± acres. The report concluded that the NAVI has adequate capacity to handle additional flows from future build out anticipated within the Golden Triangle without the need for upgrading the pipe diameter.<sup>8</sup> New pipelines that connect to the NAVI will be needed to serve development as the area builds out. The report includes plans for future pipelines (see Exhibit 4) in the Golden Triangle and estimates that new infrastructure serving the Golden Triangle area would cost about \$31.9 million.<sup>9</sup> The proposed annexation area covers about 50% of the Golden Triangle and will result in less development at build out. Therefore, it is reasonable to assume the need for and costs associated with new infrastructure will be less than these estimates.

<sup>6</sup> Ibid.

<sup>&</sup>lt;sup>7</sup> "Final Report, Sewer System Master Plan Update, Town of Apple Valley, California," URS Corporation, August 2013.

<sup>&</sup>lt;sup>8</sup> Ibid, p. 10-30 and 10-65.

<sup>&</sup>lt;sup>9</sup> Ibid, Figure 12-4, Figure 12-5, Table 1-2.





Annexation 2018-001 - Plan of Services Existing & Proposed Sewers in the Annexation Vicinity Apple Valley, California Exhibit

4

At build out, the annexation area is expected to have a population of approximately 719 residents. Based on a wastewater generation factor of 100 gallons per capita per day<sup>10</sup>, build out of the annexation area could generate an estimated 71,900 gallons of wastewater per day. Based on these estimates, future development is not expected to result in wastewater flows that exceed the existing or planned capacity of the Victorville wastewater treatment plant.

Future development within the annexation area will be required to extend wastewater collection to the property frontage, and project developers will be responsible for costs associated with connecting development to the service. The Town adopted a Sewer Connection Policy in 2006 that requires that new development connect to Town facilities where the development's lots are within one-half mile of existing sewer facilities. Developments located more than one-half mile from existing facilities are required to install dry sewers or interim "Holding Tank Systems" if approved by the Lahontan Regional Water Quality Control Board (CRWQCB). All new development is expected to ultimately be connected to the community sewage collection system.<sup>11</sup>

The Town and VVWRA assess local and regional sewer connection fees based on the total number of plumbing fixtures. The Town also assesses capacity fees, sewage facilities fees, and Development Impact Fees which are expected to provide adequate funding for extension and maintenance of sewer services to new development.

#### C. Stormwater Improvements

Stormwater management for the annexation area and surrounding area is provided by the San Bernardino Flood Control District ("Flood Control District"). The Flood Control District implements broad management functions, such as flood control planning, construction of drainage improvements for regional flood control facilities, and watershed and watercourse protection related to those facilities. It has power of taxation, bonded indebtedness, land and water rights acquisition, and cooperative partnerships with local, state, and federal agencies in order to carry out its mandated responsibility. Decisions related to the Flood Control District are made by the San Bernardino County Board of Supervisors. The District is subdivided into several geographic zones; the Town of Apple Valley and proposed annexation area are in District Zone 4.

Upon annexation, the Flood Control District would be responsible for regional stormwater management within the annexation area, and the Apple Valley Public Works Department would be responsible for local drainage management. The Town defines and manages local facilities through its Master Drainage Plan, which divides the Town and its Sphere of Influence into several subareas and identifies facilities and future needs within each. The proposed annexation area is within the North Community Drainage Plan area, which includes numerous drainage facilities designed to manage locally generated runoff.

p. III-246, "Draft Environmental Impact Report, Apple Valley General Plan and Annexations 2008-001 & 2008-002," February 2009.

<sup>&</sup>quot;Town of Apple Valley General Plan," adopted August 11, 2009.

The Town is required to monitor its Master Drainage Plans every five years to update changes to local and regional drainage and flood conditions. It has established per unit developer impact fees for storm drainage facilities for residential and commercial/industrial development to offset the cost of improvements due to increased development.

Future development within the annexation area will be required to manage storm flows onsite, and to participate in regional drainage improvements included in both County and Town drainage master plans.

#### D. Roadway Maintenance

The annexation area includes a small network of paved and unpaved roadways. It is bounded on the west by U.S. Interstate 15, a 6-lane divided highway. The nearest I-15 interchanges to the annexation area are at: 1) Dale Evans Parkway, approximately ½-mile north of the annexation area, and 2) Stoddard Wells Road, approximately ¾-mile south of the annexation area.

Stoddard Wells Road runs through the southeast corner of the annexation area. It is a two-lane undivided, southwest-northeast trending roadway that enters the Town at an interchange with I-15 and extends northeast beyond the Town limits. It is General Plan designated as a Major Road (104 foot right-of-way) north of Johnson Road and to the northeast as it traverses the Town.

The annexation area is bounded on the south by Johnson Road. East of Stoddard Wells Road, it is a two-lane east-west trending road that extends from the annexation area to the east across the northern portion of the Town. West of Stoddard Wells Road, it is unpaved and unimproved. Johnson Road is General Plan designated as a Major Road (104 foot right-of-way) east of Stoddard Wells Road.

Quarry Road roughly bisects the annexation area. It is a privately owned east-west trending road that runs parallel to and north of Johnson Road. It originates from a quarry east of the Town limits and continues west through the annexation area, crosses over I-15, and continues west. It is currently a 2-lane undivided roadway. The General Plan designates it as a Major Divided Arterial (128 foot right-of-way) within the annexation area.

Upon annexation, the Town will be responsible for roadway construction and maintenance. Construction and improvements will be required as development occurs in the annexation area, and will likely be undertaken by individual developers. Future development will be responsible for a fair share of roadway improvements. The Town has established transportation impact fees through its Developer Impact Fee schedule. These are assessed on a per unit basis for single and multi-family residential development, and per square foot for commercial and industrial development. Gas taxes, Proposition 42 Traffic Congestion Relief funds, Local Transportation Funds, and Measure I funds are also used for the construction and maintenance of streets and highways.

#### E. Public Safety: Police and Emergency Preparedness

#### Law Enforcement

The San Bernardino County Sheriff's Department currently provides law enforcement services to the annexation area. Upon annexation, law enforcement services will be provided by the Town of Apple Valley which contracts with the San Bernardino County Sheriff's Department. The Apple Valley Police/Sheriff Station is located in the Civic Center at 14931 Dale Evans Parkway in Apple Valley. Its staff includes 51 sworn personnel and 13 general employees. <sup>12</sup> In 2016, staffing levels resulted in a ratio of one deputy per 1,922 residents, and the Department responded to 69,944 calls for service. <sup>13</sup>

The Department has set a target ratio of 1 deputy per 1,500 residents.<sup>14</sup> Based on this standard, and a projected buildout population of 719 in the annexation area, build out of the annexation area would require one additional deputy.

The Town expends approximately 48% of its General Fund toward Sheriff services.<sup>15</sup> The Town has established Development Impact Fees to fund additional law enforcement facilities; these are assessed per dwelling unit and per square foot of commercial/industrial development.

#### **Emergency Preparedness**

The Town's Public Safety budget includes expenditures for emergency and disaster preparedness, including but not limited to the Emergency Operations Plan, operation of the Emergency Operation Center (EOC) at the Apple Valley Unified School District's Administration Campus, emergency response training and coordination, and public education and drills. Inclusion of this program places the Town in position to receive Federal Emergency Management Assistance (FEMA) reimbursement funds. In the event of an emergency, the Apple Valley EOC reports directly to the County Office of Emergency Services who can assist the Town with requests for state and federal assistance. Funding for the Emergency Preparedness program is through the Town's General Fund, the Apple Valley Fire Protection District, and a Federal Emergency Management Program Grant (EMPG).

Emergency medical services are provided by American Medical Response, AMR, a private company. This is further discussed under Fire Department and Medical Services, below.

http://cms.sbcounty.gov/sheriff/PatrolStations/AppleValley.aspx, accessed September 22, 2017.

<sup>&</sup>lt;sup>13</sup> p. 178, "Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018"

<sup>&</sup>quot;Town of Apple Valley General Plan," adopted August 11, 2009.

p. 34, "Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018"

#### F. Fire Department

The Apple Valley Fire Protection District (AVFPD) provides fire protection and emergency response services to a population of approximately 90,000 in a service area covering 206 square miles, including the Town of Apple Valley, the annexation area, and unincorporated land east of Apple Valley.

The District employs 51 full-time and 22 part-time, paid call, and reserve personnel. In 2016, it responded to more than 11,247 incidents, including fires and medical emergencies. It staffs five fire stations full time, all of which provide paramedic services. The closest station to the annexation area is Station No. 332 at 18857 Highway 18, approximately 4.5 miles to the south. Response times are typically within 6 minutes. In the control of the south of

The desired staffing ratio of full-time fire personnel to population is 1:1,500.<sup>19</sup> Based on this guideline, at build out the annexation area will require one additional full time fire protection staff. AVFPD may also need to obtain new equipment or facilities to serve future development in the annexation area. Given that the annexation area is undeveloped, new fire hydrants and the extension of water mains will also be required. As previously noted, the AVFPD already serves the annexation area, and additional demand will increase incrementally as development builds out in the area. Nonetheless, the increased demand will require funding to ensure the adequate provision of fire protection staffing, equipment, and facilities to serve future development.

The District's 2016-17 budget totals \$9.3 million.<sup>20</sup> Operations are funded through two main revenue sources: property taxes and special tax measures. In 2016, voters approved Measure A, a special tax measure to help fund the District, allowing it to open two previously closed fire stations and reduce response times. The District also receives revenues from Development Impact Fees which are collected by the Town from developers for new development occurring within the District.

#### G. Parks and Recreation

The annexation area is currently undeveloped and has no parks or recreation facilities. Upon annexation, the Town of Apple Valley Parks and Recreation Department would be responsible for planning, operating, and maintaining parks and recreational facilities within the annexation area. There are currently 370 acres of parks and open space within 6 mini parks, 2 neighborhood parks, 3 community parks, 2 special use parks, and 4 undeveloped park properties in Apple Valley.<sup>21</sup> The special use parks include the Apple Valley Golf Course and Horsemen's Center. The closest developed park facilities to the annexation area are the Lenny Brewster Sports Complex and Virginia Park, approximately 4 and 4.5 miles, respectively, to the southeast.

http://avfpd.org/fireems/ems-unit/, accessed September 22, 2017.

http://avfpd.org/about-us/, accessed September 22, 2017.

<sup>17</sup> Ibid.

<sup>&</sup>lt;sup>19</sup> Town of Apple Valley General Plan, 2009.

<sup>&</sup>lt;sup>20</sup> "Apple Valley Fire Protection District 2016-17 Final Budget"

<sup>&</sup>lt;sup>21</sup> "Apple Valley Parks and Recreation Master Plan, Final Plan," MIG, Inc., May 2013.

The Town's target parkland standard is 4.5 acres of developed parkland per 1,000 residents.<sup>22</sup> To meet the needs of its growing population over the long term, the Town has identified the need for 176.2 acres of additional parkland throughout its incorporated limits. The nearest proposed parks to the annexation area are: 1) a neighborhood park near the intersection of Dale Evans Parkway and Stoddard Wells Road (½ mile east of the annexation area), and 2) a community park near Bell Mountain (1 mile south of the annexation area).<sup>23</sup> At build out, the annexation area is projected to have a population of 719 residents. To achieve the target parkland standard of 4.5 acres per 1,000 residents, the annexation area would require approximately 3.2 acres of new parkland.

The Town collects Park fees through its Development Impact Fee schedule based on a per residential unit and per square foot commercial/industrial development basis. As authorized by the Quimby Act of 1975, the Town has adopted an ordinance to require dedications of land or in-lieu fees for development of new, or rehabilitation of existing, park facilities. A portion of the 1% property tax allocation it receives from the County is also allocated to parks and recreation.

#### H. Public Services and Facilities

The Town is within the service areas of the following public services providers:

- Domestic Water: the Town is served by several water service providers, of which Liberty Utilities Apple Valley has the largest customer base.
- Solid Waste Management: Burrtec Waste Industries
- Electricity: Southern California Edison
- Natural Gas: Southwest Gas Company
- Telecommunications: Frontier, Charter Spectrum
- Public Schools: Apple Valley Unified School District
- Library Services: San Bernardino County Library System
- Medical Services: St. Mary Medical Center, American Medical Response (AMR)

#### **Domestic Water**

The annexation area is undeveloped and outside the service areas of any of the several water purveyors that serve the area. Domestic water for existing residences to the immediate east is provided by private wells.

The Town of Apple Valley is served by several water providers. Liberty Utilities Apple Valley provides water services to the majority (81%) of the Apple Valley population, including areas east and south of the annexation area (see Exhibit 5). Liberty pumps 100% of its water from the Alto subarea of the Mojave River Basin groundwater aquifer from 24 wells. It has approximately 20,000 service connections, 450 miles of water pipelines, 11

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<sup>&</sup>lt;sup>22</sup> Ibid.

<sup>&</sup>lt;sup>23</sup> Ibid, Map 2.

storage tanks, 4 booster pump stations, and 11.6 million gallons of storage.<sup>24</sup> Liberty's 2015 Urban Water Management Plan concluded that it can meet water demands during normal, single dry, and multiple dry years through the year 2040, and groundwater supplies available to Liberty in the Mojave Basin area are considered reliable over the long term.

The Town will require new development in the annexation area to extend water infrastructure as development occurs. As the annexation area builds out and increased demand warrants, it is expected that it will be annexed into the Liberty Utilities Apple Valley service area for provision of domestic water and associated facilities, including the extension of water lines. Future development in the area will be required to extend water lines and other facilities to the property frontage, and shall be responsible for costs associated with the extension of service.

At build out, implementation of the proposed annexation will facilitate the development of approximately 247 dwelling units, 590 acres of commercial development, 462 acres of industrial development, and a population of 719 residents.

Table 1
Estimated Water Demand
at Build Out

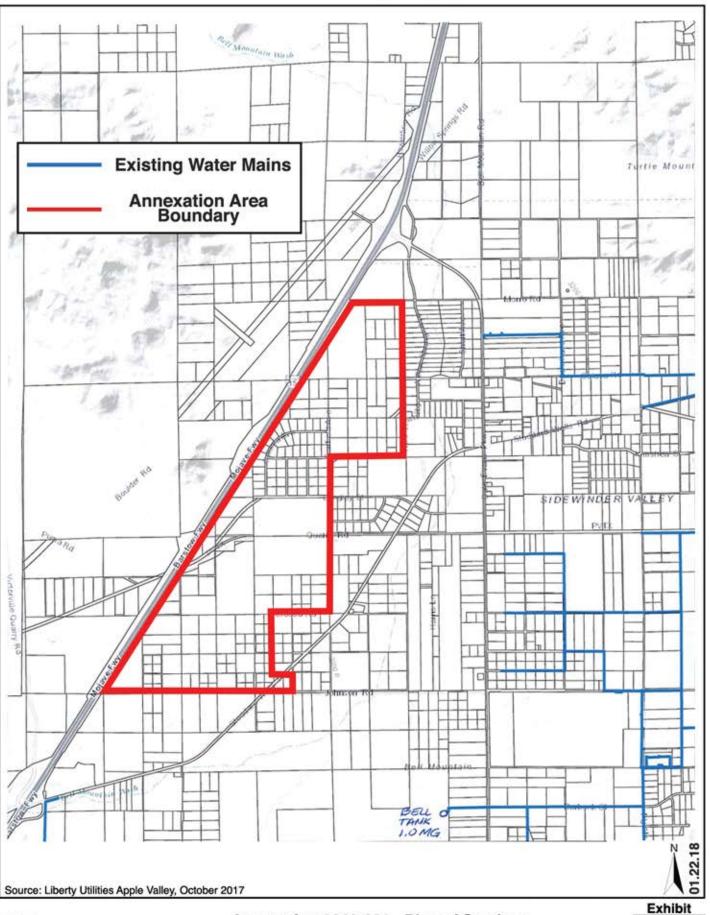
Land Use	Units Demand Factor <sup>1</sup>		Total	
	no. of persons	gallons/capita/day	ac-ft/yr	
Residential	719	208.00	167.5	
	no. of acres <sup>2</sup>	ac-ft/ac/year	ac-ft/yr	
Commercial	590	1.98	1,168.2	
Industrial	380	1.61	611.8	
		TOTAL:	1,947.5	

<sup>&</sup>lt;sup>1</sup> Demand factors from Table III-35, "Draft Environmental Impact Report, Apple Valley General Plan and Annexations 2008-001 & 2008-002," February 2009.

As shown in Table 1, development in the annexation area is projected to consume approximately 1,947.5 acre-feet of water per year at build out. Future demand will depend on actual development levels and types. Major development projects will be required to prepare Water Supply Assessments (WSAs) in compliance with Senate Bills 610 and/or 221, prior to the Town's approval. WSAs will quantify a project's estimated water usage within the context of background demand.

<sup>&</sup>lt;sup>2</sup> Does not include street right-of-way acreage.

<sup>&</sup>lt;sup>24</sup> "Liberty Utilities – Apple Valley, 2015 Urban Water Management Plan," Stetson Engineers, Inc., June 2016; and http://www.avrwater.com/about-avrwrc/about-our-water/, accessed September 26, 2017.





Annexation 2018-001 - Plan of Services **Existing Water Mains in the Annexation Area** Apple Valley, California

#### **Solid Waste Management**

The annexation area is currently undeveloped and generates no solid waste. Upon annexation, the Town of Apple Valley will be responsible for providing solid waste management services to future development in the annexation area.

Burrtec Waste Industries provides the Town with solid waste collection and disposal services. Through its contractual agreement with Apple Valley, Burrtec's AVCO Disposal collects non-hazardous solid waste and hauls it to the Victorville Landfill, located at 18600 Stoddard Wells Road, approximately 1 mile southwest of the annexation area. The landfill is operated by San Bernardino County. It has 491 total acres, 341 disposal acres, and is permitted to receive up to 3,000 tons daily.<sup>25</sup> Its remaining capacity is estimated at 81,510,000 cubic yards,<sup>26</sup> and the estimated closing date is October 2047.<sup>27</sup> Solid waste collection and disposal services are provided on a fee basis to residential, commercial, and industrial customers.

AVCO also provides weekly pick up of recyclable materials for residential, commercial and industrial development. Recyclables are sorted at the Victor Valley Materials Recovery Facility (MRF) at 17000 Abbey Lane, approximately 4 miles southwest of the annexation area. The facility is capable of processing 20 tons of material per hour.<sup>28</sup>

Residential household hazardous wastes (HHW), such as pesticides, batteries, medications, paint thinners, electronics, and gasoline and fuels, are accepted at the Apple Valley Public Works Yard at 13450 Nomwaket Road.

The Town participates in the Zero Waste Communities of San Bernardino County (ZWC) collective, as well as the Mojave Desert and Mountain Recycling Joint Powers Authority (JPA) along with Adelanto, Barstow, Big Bear, Needles, Twentynine Palms, Victorville, Yucca Valley, San Bernardino County, and unincorporated areas in the high desert. The JPA addresses solid waste contracts, facilities, issues, and education for its member cities and some unincorporated areas in the County.

Table 2 estimates potential solid waste generated at build out of the annexation area.

http://calrecycle.ca.gov/SWFFacilities/Directory/36-AA-0045/Detail/, accessed September 27, 2017.

<sup>26</sup> 

County of San Bernardino Solid Waste Facility Permit, Facility Number 36-AA-0045, issued June 2,

http://www.applevalley.org/services/solid-waste-trash/materials-recovery-facility-mrf, accessed September 27, 2017.

Table 2
Estimated Solid Waste Generated
at Build Out

	Generation		<b>Build Out</b>	Total
Land Use	Factor <sup>1</sup>	<b>Unit Type</b>	Units	tons/year
Residential/Single Family	2.0400	tons/du/year	247 du	503.88
Commercial/Retail	0.0024	tons/sf/year	3,789,101 sf	9,093.84
Commercial/Office	0.0108	tons/sf/year	1,867,957 sf	20,173.94
Industrial	0.0108	tons/sf/year	3,646,216 sf	39,379.13
			Total	69 150 79

<sup>&</sup>lt;sup>1</sup> Generation factors from Table III-58, "Draft Environmental Impact Report, Apple Valley General Plan and Annexations 2008-001 & 2008-002," February 2009.

As shown in Table 2, build out of the annexation area is projected to generate 69,150.79 tons of solid waste per year. Actual solid waste generation will depend on development. At least 50% of solid waste is expected to be diverted from the waste stream and recycled. The existing level of solid waste services and landfill capacity available to the Town are expected to adequately serve future development in the annexation area. The Town will coordinate with developers to ensure that recycling containers are included and maintained in compliance with Town and County waste disposal programs.

#### **Electricity**

The annexation area is currently undeveloped and generates no demand for electricity. However, it is within the service area of Southern California Edison (SCE), which serves the Town of Apple Valley and High Desert region. SCE has four major SCE 115kV electric transmission corridors in the region, from which power is delivered to local residential, commercial, industrial and institutional customers by means of substations and distribution lines. Substation voltages are 33kV to 115kV. Distribution lines and circuits range from 33kV to 6.9kV.<sup>29</sup> The Town Ordinance No. 14.28.020 requires that all new electric lines of 34.5kV or less in Apple Valley be installed underground.

In the short-term, no immediate increase in demand for electricity is anticipated in the annexation area. Development is expected to occur gradually over time and will contribute to the regional demand for electricity. Developers will be responsible for the cost for extension of electricity facilities in the annexation area. As a publicly traded company, SCE has developed a rate structure that includes the expansion of facilities to accommodate growth. Since development in the annexation area is expected to occur over time, SCE's expansion plans will be adjusted to accommodate it.

As shown in Table 3, total electricity usage at build out of the annexation area is estimated at 109,592,202.7 kilowatt-hours per year.

Letter of correspondence, Nancy Jackson, Southern California Edison, July 25, 2008.

Table 3
Estimated Electricity Usage
at Build Out

		Build Out	Total
Land Use	Usage Rate <sup>1</sup>	Units	kwh/year
Residential	5,626.5	247 du	1,389,745.5
	kwh/unit/year		
Commercial/Retail	13.55 kwh/sf/year	3,789,101 sf	51,342,318.6
Commercial/Office	12.95 kwh/sf/year	1,867,957 sf	24,190,043.2
Industrial	8.96 kwh/sf/year	3,646,216 sf	32,670,095.4
		Total:	109,592,202.7

<sup>&</sup>lt;sup>1</sup> Usage rates from Tables III-7, III-8, and III-9, "Draft Environmental Impact Report, Apple Valley General Plan and Annexations 2008-001 & 2008-002," February 2009.

### **Natural Gas**

The annexation area is undeveloped and generates no demand for natural gas services. Southwest Gas Company (SWG) provides natural gas service to the Town and its planning area through a series of pipelines of differing sizes and pressure capabilities. Transmission, supply, and distribution lines provide service to most portions of the Town and its Sphere of Influence. Some undeveloped or extremely rural areas within the SWG service area are without facilities. Where natural gas services and facilities are not available, propane is utilized as an alternative source of fuel.

SWG has a network of high-pressure natural gas corridors along: Central Road-Quarry Road to Ottawa Road; Thunderbird Road-Central Road to Highway 18 and Quantico Road; Ottawa Road-Central Road to Kiowa Road; Del Oro Road-Kiowa Road to Tussing Ranch Road; Del Oro Road-Kiowa Road to Joshua Road; Bear Valley Road-Kiowa Road to the Mojave River; and Apple Valley Road-Bear Valley Road to Yucca Loma Road. It also has lines within Dale Evans Parkway east of the annexation area.

The high-pressure system consists of a combination of 4-inch, 6-inch, 8-inch, and 12-inch high-pressure lines that operate at 240 pounds per square inch (psi). These lines use 36-inch lines with pressure levels ranging from 400 to 700 psi, with pressure reduced at different limiting stations, which then direct the gas to distribution lines. Distribution lines are 2 to 8 inches in diameter, with pressure levels ranging from 175 to 400 psi, and are located within most public right-of-ways. The pressure is reduced again at regulator stations, which transfer natural gas to distribution lines for transportation to homes and businesses. Distribution lines are 2 to 4-inch diameter steel or plastic pipes that operate at 45 to 55 psi.<sup>30</sup>

SWG works closely with developers to accommodate new development through the extension of services and facilities as demand load warrants. New facilities, including natural gas distribution lines, will need to be constructed to serve new development in the annexation area. Build out is expected to occur gradually over time. The Town and SWG

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Personal communication, Kevin Lang, Southwest Gas, April 2008.

coordinate closely to assure the adequate provision of natural gas facilities and services to new development within the SWG service area. SWG's rate structure includes the expansion of facilities to accommodate growth. As development occurs, SWG's expansion plans will be adjusted to accommodate it.

Table 4 estimates that natural gas consumption in the annexation area at build out will be 33,872,398.7 cubic feet per month.

Table 4
Estimated Natural Gas Usage
at Build Out

		<b>Build Out</b>	Total
Land Use	Usage Rate <sup>1</sup>	Units	cf/month
Residential/single-family	6,665.0 cf/du/month	247 du	1,646,255.0
Commercial/Retail	2.9 cf/sf/month	3,789,101 sf	10,988,392.9
Commercial/Office	2.0 cf/sf/month	1,867,957 sf	3,735,914.0
Industrial	4.8 cf/sf/month	3,646,216 sf	17,501,836.8
		Total:	33,872,398,7

<sup>&</sup>lt;sup>1</sup> Usage rates from Tables III-10, III-11, and III-12, "Draft Environmental Impact Report, Apple Valley General Plan and Annexations 2008-001 & 2008-002," February 2009.

### **Telecommunications**

The annexation area is currently undeveloped, and there is currently no demand for telecommunications services.

Frontier and Charter Spectrum provide telecommunications services, including telephone, high-speed Internet service, and cable television, to the high desert region, including Apple Valley. Upon annexation, there would be increased demand for Frontier and Charter Spectrum services and facilities in the annexation area. Both companies plan for infrastructure and service extensions throughout the region based on future development. While both of these service providers will need to monitor growth trends in their service areas to ensure the orderly and efficient of services and facilities, development in the annexation area will occur over time, providing them time to plan for expansion and to accommodate growth into their respective rates structures.

### **Public Schools**

Apple Valley Unified School District (AVUSD) provides public education services and facilities to over 13,000 students in the Town of Apple Valley and surrounding area, including the annexation area.<sup>31</sup> The annexation area is within the service boundaries of the following schools: 1) Sycamore Rocks Elementary School (K-6), 5.5± miles to the southeast, 2) Phoenix Academy (K-8), 5± miles to the southeast, and 3) Granite Hills High School (9-12), 7± miles to the southeast. The annexation area is currently undeveloped and generates no student population.

http://sites.google.com/a/avusd.org/www/Home, accessed September 25, 2017.

Build out of the proposed annexation area is expected to result in development of 247 dwelling units, all of which are expected to be single-family homes. Table 5 estimates that, based on student generation rates provided by AVUSD, build out of the annexation area will generate a school enrollment of 120 students. New development will occur over time, with a gradual increase in the number of students.

Table 5
Estimated Student Generation
at Build Out

	at Dull	ս Ծաւ	
Grade Level	Potential Build Out Units	Student Generation Rate <sup>1</sup>	Estimated Student Generation at Build Out
K-5	Chits	Tutt	ut Buna Out
Single-Family	247	0.2609	65
Multi-Family	0	0.2344	0
6 - 8	_		- -
Single-Family	247	0.0727	18
Multi-Family	0	0.0454	0
High School			
Single-Family	247	0.1489	37
Multi-Family	0	0.0880	0
		TOTAL:	120

<sup>&</sup>lt;sup>1</sup> Source: Table 5, Apple Valley Unified School District Residential Development School Fee Justification Study, March 25, 2016.

Future development in the annexation area will generate revenues to the District from Developer Impact Fees. Development Impact school fees are \$0.56 per square foot for commercial development, and \$3.48 per livable square foot for residential development. AVUSD plans for new school sites as the student population increases based on tract map approvals within the Town. The Town will coordinate closely with AVUSD to ensure the adequate provision of public education services and facilities to students in the Town.

### **Library Services**

The Town is served by the Newton T. Bass Branch Library, which is part of the San Bernardino County Library System. The Bass Library is a 19,000± square foot facility located next to Town Hall at 14901 Dale Evans Parkway. It houses over 71,000 hardcopy books<sup>32</sup> and also provides users with access to an online database containing electronic periodicals, magazines and encyclopedias. The library offers a variety of programs and community events.

Michael Jimenez, County Librarian, San Bernardino County, October 4, 2017.

The County Master Library Facility Plan<sup>33</sup> indicates that the desirable size of a public library in the County system within communities with populations of between 35,000 and 100,000 persons is 0.5 to 0.6 square feet per capita. The County Plan further indicates that additional library funding would be needed to meet a standard of 0.5 to 0.6 square feet per capita, and addresses expansion of the library in Apple Valley to provide facilities consistent with the national average by year 2021. The standard targeted in the Master Facility Plan is 0.45 square feet of library space per capita in Apple Valley.<sup>34</sup>

At build out the annexation area is expected to have a population of 719. Based on the proposed standard of 0.45 that is indicated in the County's Master Plan, the build out population of the annexation areas would be adequately served by approximately 324 square feet of library facilities. Buildout of the annexation area will occur gradually over time, thus providing the County an opportunity to plan for expansion of library facilities.

Currently, the County collects taxes for the library system through a County Library special district assessment. The Special District includes the unincorporated County and 17 cities, including Apple Valley. The annexation will result in no net change in the total tax revenues to the Special District. The amount currently allocated toward the annexation area for library services will be redistributed to those allocated toward the Town. The Town does not directly receive any revenues associated with the library special district.

### **Medical Services**

### Hospital Services

The nearest hospital to the annexation area is St. Mary Medical Center, a licensed 212-bed hospital located at 1830 Highway 18 in Apple Valley (4.5± miles south of the annexation area). Its service area includes more than 372,000 residents in the communities of Apple Valley, Heperia, Lucerne Valley, Adelanto, Victorville, Helendale, and surrounding areas. It is staffed by more than 1,751 employees and has professional relationships with more than 300 doctors.<sup>35</sup> Major programs include a fully accredited cardiovascular surgery program, Level II Neonatal Intensive Care Unit, diagnostic imaging, emergency medicine, and obstetrics.

Build out of the annexation area will generate a population of approximately 719 residents, which represents 0.2% of St. Mary's total service area population. It is anticipated that the hospital would be capable of serving the population of the annexation area.

<sup>33 &</sup>quot;San Bernardino County Library Master Facility Master Plan," prepared by Providence Associates, December 2001.

<sup>&</sup>quot;Apple Valley Branch San Bernardino County Library Planning Recommendations in the San Bernardino County Library Master Facility Master Plan", prepared by Providence Associates, December 2001.

<sup>&</sup>lt;sup>35</sup> "St. Mary Medical Center 2017 Community Health Assessment Report."

### Emergency Medical Services

American Medical Response (AMR) Victorville is under contract to San Bernardino County to provide emergency, non-emergency, and stand-by medical services to High Desert communities, including Apple Valley and the annexation area. It responds to approximately 40,000 calls annually and employs an estimated 130 EMTs and Paramedics.<sup>36</sup> Upon annexation, ambulance service would continue to be provided by AMR.

http://www.amr.net/home/victorville, accessed September 27, 2017.

### **CERTIFICATION**

I hereby certify that the statements furnished above and the documents attached to this Plan of Services present the data and information required to the best of my ability, and that the facts, statements and information presented herein are true and correct to the best of my knowledge.

Prepared by:		Date	
	Orlando Acevedo		
	Assistant Director of Econor	mic Development	
Reviewed by	<i>T</i> :	Date	
	Doug Robertson		
	Town Manager		

### Appendix A ASSESSOR'S PARCEL NUMBERS WITHIN ANNEXATION 2018-001

Assessor Parcel Number			Parcel A	ddress (optional)		
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
047229323	0	QUARRY	RD	APPLE VALLEY	CA	92307
047236123	0					00000
047236125	0					00000
047227105	0					00000
047227364	0					00000
047227368	0					00000
047227371	0					00000
047226404	0	SERRA	AVE	APPLE VALLEY	CA	92307
047227311	0	3 LTS E OF FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047236131	0					00000
047236255	0					00000
047236256	0					00000
047226107	0					00000
047226114	0					00000
047226115	0					00000
047236104	0					00000
047229327	0					00000
047229328	0					00000
047229331	0					00000
047226408	0					00000
047227203	0					00000
047227206	0	N/O COLOMA	AVE	APPLE VALLEY	CA	92307
047227210	0					00000
047226501	0					00000
047226505	0					00000
047226506	0					00000
047226507	0					00000
047227210	0					00000
047226116	0					00000
047226201	0					00000
047226208	0					00000

Assessor Parcel Number		Parcel Address (optional)					
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP	
047236240	0					00000	
047227314	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307	
047227315	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307	
047227316	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307	
047227323	0					00000	
047236107	0					00000	
047236111	0			APPLE VALLEY	CA	92307	
047236114	0					00000	
047236115	0					00000	
047223232	0	MORRO	RD	APPLE VALLEY	CA	92307	
047227213	0					00000	
047227359	0					00000	
047227215	0					00000	
047227215	0					00000	
047227217	0					00000	
047227217	0					00000	
047236245	0					00000	
047236246	0					00000	
047226101	0					00000	
047226104	0					00000	
047226303	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307	
047236247	0					00000	
047236248	0					00000	
047229315	0					00000	
047229316	0					00000	
046916211	19459	WRANGLER	RD	VICTORVILLE	CA	92392	
046916214	0					00000	
047223208	0					00000	
047223209	0	1 LOT S OF MORRO	RD	APPLE VALLEY	CA	92307	
047223210	0	S/O MORRO	RD	APPLE VALLEY	CA	92307	
046916216	0					00000	

Assessor Parcel Number		F	arcel A	ddress (optional)	)	
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
046916224	0					00000
046916228	0					00000
047227370	0	PROXIMAL TO COLOMA	AVE	APPLE VALLEY	CA	92307
047226206	0					00000
047236127	0					00000
047229320	0					00000
047229326	0					00000
047226109	0					00000
047226111	0					00000
047226215	0	COLOMA	AVE	APPLE VALLEY	CA	92307
047223215	0	COLUSA	RD	APPLE VALLEY	CA	92307
047227312	0					00000
047229304	0					00000
047226104	0					00000
047229304	0					00000
047229304	0					00000
047227369	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047226110	0					00000
047236213	0					00000
047226102	0					00000
047226209	0					00000
047226301	0					00000
047236128	0					00000
047226508	0					00000
047223213	0	NORTH OF COLUSA	RD	APPLE VALLEY	CA	92307
047229332	0	ARCATA	RD	APPLE VALLEY	CA	92307
047226407	0					00000
047229329	0					00000
047223216	0	COLUSA	RD	APPLE VALLEY	CA	92307
047236108	0					00000
047226212	0	COLOMA	AVE	APPLE VALLEY	CA	92307

Assessor Parcel Number		Parcel Address (optional)				
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
047227327	0					00000
047229313	0					00000
047227360	0					00000
047236121	0					00000
047236212	0					00000
047229317	0					00000
047226105	0					00000
047226106	0					00000
047236105	0					00000
047226108	0	COLOMA	AVE	APPLE VALLEY	CA	92307
047223211	0	SOUTH OF MORRO	RD	APPLE VALLEY	CA	92307
047236239	0					00000
047227214	0					00000
047227214	0					00000
047227357	0					00000
047229325	0					00000
047227365	0					00000
046916201	0					00000
046916215	0					00000
047227310	0	COLUSA	RD	APPLE VALLEY	CA	92307
046916218	0					00000
047229318	0					00000
047226306	0					00000
047236249	0					00000
047236106	0					00000
047226214	0	COLOMA	AVE	APPLE VALLEY	CA	92307
047226402	0					00000
047226502	0					00000
047227308	0	COLUSA	RD	APPLE VALLEY	CA	92307
047236237	0					00000
047223212	0					00000

Assessor Parcel Number			Parcel A	ddress (optional)	)	
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
047236222	0	STODDARD WELLS	RD	APPLE VALLEY	CA	92307
047236222	0	STODDARD WELLS	RD	APPLE VALLEY	CA	92307
047223218	0	COLUSA	RD	APPLE VALLEY	CA	92307
047227204	0					00000
047226103	0					00000
047226302	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047223214	0	N/O COLUSA	RD	APPLE VALLEY	CA	92307
046916213	0			APPLE VALLEY	CA	92307
047227205	0	SOMBRE	RD	APPLE VALLEY	CA	92307
047227305	0	COLUSA	RD	APPLE VALLEY	CA	92307
047226207	0	KIMSHEW	ST	APPLE VALLEY	CA	92307
047236116	0					00000
047236126	0					00000
047226504	0					00000
046916220	0					00000
047229306	0	QUARRY	RD	APPLE VALLEY	CA	92307
047229311	0					00000
047226307	0					00000
047227212	0					00000
047227306	0	WILD WASH	RD	APPLE VALLEY	CA	92307
047227306	0	WILD WASH	RD	APPLE VALLEY	CA	92307
047236109	0	DOBERMAN	RD	APPLE VALLEY	CA	92307
047226112	0					00000
047226204	0	KIMSHEW	ST	APPLE VALLEY	CA	92307
047226211	0					00000
047227221	0					00000
046916225	0					00000
047227202	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047227326	0					00000
047229322	0					00000
047226203	0					00000

Assessor Parcel Number			Parcel A	ddress (optional)	)	
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
047236113	0	JOHNSON	RD	APPLE VALLEY	CA	92307
047226304	0	FAIRFIELD	ST	APPLE VALLEY	CA	92307
047223206	0	MORRO	RD	APPLE VALLEY	CA	92307
047236215	0					00000
046916210	0	JOHNSON	RD	ORO GRANDE	CA	92368
046916223	0					00000
047223231	0					00000
047226210	20605	COLOMA	AVE	APPLE VALLEY	CA	92308
047226308	0					00000
047226403	0					00000
047236117	0					00000
047236118	0					00000
047236129	0					00000
047236214	0					00000
047227219	0	1 LT W OF FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047229303	0					00000
047229314	0					00000
047226205	0					00000
047226305	0	SERRA	AVE	APPLE VALLEY	CA	92307
047223217	0	COLUSA	RD	APPLE VALLEY	CA	92307
047226406	0					00000
046916217	0			ORO GRANDE	CA	92368
047229330	0					00000
047227220	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047236254	0					00000
047236130	0					00000
047236132	0					00000
047236257	0					00000
047229310	0					00000
047229312	0					00000
047227319	0					00000

Assessor Parcel Number			Parcel A	ddress (optional)		
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP
047229305	0	QUARRY	RD	APPLE VALLEY	CA	92307
046916212	0					00000
047226401	0					00000
047226405	0	REYES	AVE	APPLE VALLEY	CA	92307
047227218	0	JEO I-15		APPLE VALLEY	CA	92307
047227313	0					00000
047229324	0					00000
047236120	0					00000
047227307	0					00000
047229308	0					00000
046916219	0	FRONTIER	RD	APPLE VALLEY	CA	92307
046916226	0					00000
047226113	0					00000
047236110	0					00000
047223219	0	COLUSA	RD	APPLE VALLEY	CA	92307
047236112	0					00000
047227209	0					00000
047236238	0					00000
047227309	0					00000
047227317	20713	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047229302	0					00000
047227372	0	FAIRFIELD	AVE	APPLE VALLEY	CA	92307
047236101	0					00000
047236103	0					00000
047226202	0					00000
047226503	0					00000
046916227	0					00000
047226213	0	COLOMA	AVE	APPLE VALLEY	CA	92307
047236124	0					00000

Assessor Parcel Number		Parcel Address (optional)					
(APN)	Street Number	Street Name	St. Rd. Ln.	City Name	State	ZIP	



### FISCAL IMPACT ANALYSIS FOR ANNEXATION NO. 2018-001 to the TOWN OF APPLE VALLEY

Prepared for

Town of Apple Valley 14955 Dale Evans Parkway Apple Valley, CA 92307

Prepared by

✓ Terra Nova Planning & Research, Inc.®
 42635 Melanie Place, Suite #101
 Palm Desert, California 92211

Revised September 2018

# FISCAL IMPACT ANALYSIS for ANNEXATION 2018-001 to the TOWN OF APPLE VALLEY

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# TOWN OF APPLE VALLEY ANNEXATION NO. 2018-001

### FISCAL IMPACT ANALYSIS

### I. INTRODUCTION, PROJECT DESCRIPTION AND DEMOGRAPHICS

### **Background**

In June 2011, the Town of Apple Valley prepared a Fiscal Impact Analysis to evaluate potential fiscal impacts associated with buildout of Annexation No. 2008-001 (also known as the Golden Triangle). The annexation area consisted of 2,774.6± acres adjacent to the western Town limits and under the jurisdiction of San Bernardino County.

Annexation 2008-001 was not completed. The Town now proposes Annexation 2018-001, consisting of  $1,304\pm$  acres within the Annexation 2008-001 area. Compared to Annexation 2008-001, the currently proposed annexation would result in a reduction of overall total acreage and land use buildout quantities. The balance of the 2008 annexation area,  $1,470\pm$  acres, would remain part of the County.

This document evaluates the potential fiscal impacts associated with buildout of Annexation No. 2018-001. It uses the same methodologies and assumptions of the 2011 document but is based on updated fiscal and demographic data, tax rates, Town fees, and other information to reflect current conditions in the project area.

### Introduction

The County of San Bernardino Local Agency Formation Commission (LAFCO) does not prescribe format or content for the fiscal impact analyses required as part of annexation actions. Neither does the County of San Bernardino have guidelines for these documents. As a result, this fiscal impact analysis is based on previously prepared fiscal impact analyses for annexations in San Bernardino and Riverside counties. It addresses the costs and revenues which can be expected to be generated through build out of the annexation area, in five (5) year increments, and assuming a twenty (20)-year build out, although it is likely that build out of the annexation will occur over a longer period of time.

Revenue and cost factors were obtained from a variety of sources, including the Town of Apple Valley Fiscal Year July 1, 2017- June 30, 2018 Budget and Apple Valley staff, San Bernardino County, San Bernardino County Association of Governments (SANBAG), and the State of California.

The analysis applies the appropriate revenue and cost factors to the proposed land use designations assigned in the Apple Valley General Plan Land Use Map and Zoning Map to the annexation area. The revenue and cost categories used to develop this fiscal analysis are described in Sections II and III of this document, respectively. Assumptions associated with each land use category are described in Section IV. The cost/revenue analysis is shown in Section V.

Both costs and revenues throughout this analysis are calculated in current dollars. No inflation adjustment has been made. Although costs and revenues will rise over the build out period of the annexation area, the ratio of costs to revenues is not expected to significantly change. As a result, the analysis in constant dollars is representative of the framework of costs and revenues likely to be experienced by the Town throughout the life of the annexation.

### **Project Description**

The purpose of this fiscal analysis is to consider the potential financial impacts to the Town of Apple Valley from the annexation of 1,304± acres of land that are currently under the jurisdiction of San Bernardino County. Annexation No. 2018-001, referred to herein as "the annexation," is comprised of lands immediately west of the current Town limits, along U.S. Interstate 15 (I-15). The annexation area is bounded by the Town's corporate limits on the south, east and north. It is within the Town's Sphere of Influence, as defined by the LAFCO.

Table 1 shows the proposed land use designations in the annexation area, which include lands designated for residential, commercial and industrial uses. The proposed land use assignments could result in up to 247 single-family residential dwelling units; 5,657,059 square feet of commercial space; and 3,646,216 square feet of industrial space. There are no projects currently planned within the annexation area. The annexation area is entirely comprised of vacant desert land.

Table 1
Annexation No. 2018-001
Vacant and Developed Acreage by Land Use Designation

	Developed	Vacant	Total	Total
Land Use Designation	Acres	Acres	Acres	Units
Residential Designations				
Estate Residential	0	247	247	247
Residential Subtotal			247	247
<b>Commercial Designations</b>				Total Square Feet
General Commercial	0	14	14	134,069
Regional Commercial	0	381	381	3,655,032
Office Professional	0	195	195	1,867,957
Commercial Sub-total			590	5,657,059
<b>Industrial Designations</b>				Total Square Feet
Planned Industrial	0	380	380	3,646,216
Industrial Sub-total			380	3,646,216
Other Designations				
Street Rights-of-Way	0	87	87	
Other Sub-total				
Grand Total	0	1,304	1,304	

### **Demographic Profile**

The population in the Town of Apple Valley increased from 46,079 in 1990 to 54,239 by 2000, according to U.S. Census data. This represents an increase of approximately 17.7%. The 2010 Census reported a population of 69,135, representing an increase of 27.5% between 2000 and 2010. The California Department of Finance estimates that the Town's 2017 population was 74,701.<sup>1</sup>

The median age in Apple Valley in 1990 was 30.8 years, which increased to 35.4 years in 2000 and 37.0 years in 2010.<sup>2</sup> The number of housing units in the Town was 20,163 in 2000 and 26,117 in 2010; this figure was estimated at 25,909 in 2016.<sup>3</sup>

In 2000 there were an average of 2.90 persons per household in the Town; by 2010 this had increased to 2.91, and by 2016 it had increased to 3.07.<sup>4</sup>

<sup>3</sup> 2000 and 2010 U.S. Census; 2012-2016 American Community Survey 5-Year Estimates.

Department of Finance, Demographic Research Unit, City/County Population Estimates with Annual Percent Change, January 1, 2016 and 2017.

<sup>&</sup>lt;sup>2</sup> 1990, 2000, and 2010 U.S. Census.

<sup>&</sup>lt;sup>4</sup> 2000 and 2010 U.S. Census; 2012-2016 American Community Survey 5-Year Estimates. 2016 persons per household is not available; figure shown is the average of Average Household Size of Owner-occupied Unit (2.89) and Average Household Size of Renter-occupied Unit (3.24).

The median household income in Apple Valley was \$40,421 in 2000, \$50,066 in 2010, and \$47,433 in 2016.<sup>5</sup>

The median price for an existing home in Apple Valley was \$234,463 in 2017, an increase of 12.1% over the 2016 figure.<sup>6</sup> The median price for a new home was \$262,400 in 2017, a decrease of 5.6% from 2016.

2000 U.S. Census; 2006-2010 American Community Survey 5-Year Estimates; 2012-2016 American Community Survey 5-Year Estimates.

<sup>&</sup>lt;sup>6</sup> "Inland Empire Quarterly Economic Report," Inland Empire Economic Partnership, Vol. 29, No. 4, October 2017.

# TOWN OF APPLE VALLEY ANNEXATION NO. 2018-001

### FISCAL IMPACT ANALYSIS

### II. Potential Revenues FROM ANNEXATION NO. 2018-001

Buildout of the annexation area has the potential to generate revenues to the Town of Apple Valley. The following describes potential revenue sources to the Town.

### A. Potential Revenue Sources to the Town of Apple Valley

Revenue sources to the Town include annual revenues and one-time fees. Annual revenues consist of those that flow into the Town's General Fund and funds that are restricted for specific uses. General Fund revenues include property tax, property transfer tax, sales tax, transient occupancy tax, and motor vehicle in-lieu fees. Restricted funds include Measure I transportation funds and highway users gas tax.

The analysis also considers projected one-time revenues which will occur as a direct result of development within the annexation area. These include Developer Impact Fees paid to the Town at the time of construction. These revenues have been quantified in this analysis, but are not included in the annual revenues shown in Table 5.

#### **Annual Revenues**

### Property Tax

The County of San Bernardino collects property tax annually at a rate of one percent (1%) of assessed valuation. Property tax revenues are allocated between the County, the jurisdiction in which the land is located (if any), and a variety of other public agencies. Of the one percent (1%) collected by the County, the Town receives approximately 9.5%, of which 5.6% goes to the Town General Fund.<sup>7</sup> In accordance with the County's "Share the Pain" revenue-sharing policy for annexed lands, 50% of these revenues will be distributed to the Town and 50% will be distributed to the County when the annexation is completed. Table 5 shows revenues to the Town under General Fund revenues.

Finance Director, Town of Apple Valley, April 2018.

The fiscal model assumes that all properties are taxed at a rate of one percent (1%) of valuation, and the collection rate is 100%. The only residential land use designation proposed in Annexation 2018-001 is Estate Residential (RE) which allows detached single-family homes; no multi-family units are proposed. The value of new single-family detached residential units is based on the second quarter, year 2017 median new home price for the Town of Apple Valley as shown in the "Inland Empire Quarterly Economic Report." This value is \$262,400.

The value of new commercial and industrial development is assumed to be \$55 per square foot, based on building permit data for years 2014-2017 provided by the Town Building and Safety Division.<sup>9</sup>

### Property Transfer Tax

Property Transfer Tax revenues are generated when a change of property ownership occurs. For analysis purposes, estimated Property Transfer Tax revenues are calculated according to the instructions provided in the Riverside County "Guide to Preparing Fiscal Impact Reports." Factors set forth in the Guide include a tax rate of \$1.10 per \$1,000 (or 0.11%) of the unencumbered property value. This analysis further assumes that for a transfer within an incorporated jurisdiction, the revenue is divided evenly between the County (50%) and the jurisdiction (50%). Upon the sale of a new unit, 100% of the unit's market value is subject to the property transfer tax. Upon change of ownership of an existing unit, the unencumbered value (average 80%) of the property is subject to the property transfer tax. Change in ownership is assumed to begin in the fourth year of the project, and ten percent (10%) of existing residential properties are assumed to change ownership per year. Property values are stated in year 2017 dollars, and the same property values used in the property tax revenue evaluation, above, are used in this analysis. A resale rate of one percent (1%) is assumed for single-family attached development. As discussed in Section III, this analysis assumes no resales during the twenty (20)-year buildout period for commercial and industrial development, as such sales are infrequent and sporadic. As a result, the analysis is conservative, and revenues to the Town from property transfer tax are likely to be higher than represented herein.

### Sales Tax

Sales tax in San Bernardino County is collected at a rate of 7.75% by the State of California. The table below describes how sales tax revenues are allocated among public agencies.

"Inland Empire Quarterly Economic Report," Inland Empire Economic Partnership, Vol. 29, No. 4, October 2017.

Terra Nova Staff estimates based on Year 2014-2017 Commercial/Industrial building permit data, Town of Apple Valley Building Division.

Table 2
Components of the 7.75% Sales and Use Tax

Components of the 7.7570 Sales and Ose Tax				
Rate Jurisdiction				
5.00%	State General Fund			
1.00%	City/County Local Tax			
0.25%	Countywide Transportation Tax			
0.50%	County Mental Health			
0.50%	Public Safety Augmentation Fund (Prop 172)			
0.50%	County Transactions Tax (Measure I)			
7.75%	TOTAL RATE			

Source: p. 61, "Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017-June 30, 2018."

Of the sales tax collected by the State, one percent (1.0%) is allocated to the jurisdiction in which the sale occurred. The fiscal analysis estimates total taxable sales that could be generated at buildout of the proposed annexation area, then calculates 1% of taxable sales to determine how much sales tax revenue would be generated to the Town.

The fiscal impact model projects potential sales tax revenue generated on vacant commercial lands proposed for annexation. It assumes that future development of commercial lands will result in twenty-two percent (22%) lot coverage. It also assumes that ninety percent (90%) of the net floor space of General and Regional Commercial development, and thirty percent (30%) of the net floor space of Office Professional development, will be dedicated to the sale of taxable goods. Average annual sales estimators from the Urban Land Institute's (ULI) 2008 "Dollars and Cents of Shopping Centers" are applied to the number of square feet dedicated to taxable sales. The fiscal analysis calculates sales tax generation from three types of commercial development, based on ULI definitions:

- "Neighborhood Commercial" development: includes neighborhood scale shopping centers conveniently located near residential areas, and a variety of smaller commercial centers, specialty retail shops and personal service businesses. This type of development generates an annual average of \$326.13 per square foot in taxable sales.
- "<u>Community Commercial</u>" development: includes larger, community scale shopping centers and malls that may be anchored by several department stores. This type of development generates an annual average of \$286.10 per square foot in taxable sales.
- "Regional Commercial" development: includes larger, regional scale shopping centers and malls that may include a variety of general merchandise, apparel, and home furnishings as well as services and recreational facilities that may be anchored by department stores. This type of development generates an annual average of \$275.41 per square foot in taxable sales.

Although small amounts of sales tax revenue are likely to be generated in the industrial development which will occur in the annexation area, the amount is expected to be negligible. As a result, industrial development is assumed to generate no taxable sales in this analysis.

### Transient Occupancy Tax (TOT)

Transient Occupancy Tax is collected from individuals when they occupy a hotel or motel room. In Apple Valley, TOT is collected at a rate of seven percent (7%). Potential TOT revenues are based on the number of hotel/motel rooms that could be constructed on annexation lands, the average nightly room rate charged, and the average occupancy rate. The number of hotel/motel rooms that could be constructed is determined by multiplying the number of acres available for hotel/motel development by the maximum permitted room density. The room rate used in this analysis is \$100.00/night, which is the average nightly rate for a freeway serving hotel/motel such as might be realistically expected to develop in the annexation area. The average occupancy rate is assumed to be sixty-five percent (65%). As tourism activity may be expected to fluctuate seasonally in the region on an annualized basis, a sixty-five percent (65%) occupancy rate is conservative.

### Motor Vehicle In-Lieu Fees

Motor Vehicle In-Lieu Fees, or Motor Vehicle License Fees, are collected by the State of California and allocated to local jurisdictions on a monthly basis. These fees are levied on motorists in lieu of a local property tax. The Town anticipates receiving approximately \$0.80 per person in Motor Vehicle In-Lieu fund revenues.<sup>10</sup>

### Highway User Gas Tax

The State of California imposes a per gallon tax on all gasoline purchases. A portion of these revenues is allocated to counties and cities throughout the state. Gas tax monies can only be used for construction and maintenance of streets and highways. The anticipated per capita apportionment for Fiscal Year 2017-2018 for the Town is \$20.99.<sup>11</sup>

### Measure I Funds

Of the 7.75% sales tax collected in San Bernardino County, 0.50% (or .005 cent on the dollar) is contributed to the Measure I fund for regional and local transportation projects. These revenues are managed and distributed by the San Bernardino Association of Governments (SANBAG). For purposes of Measure I distributions, the Town is a part of the Victor Valley sub-area of the Mountain/Desert Subregion. Of Measure I funds collected in the sub-area, seventy percent (70%) is allocated to the sub-area Local Streets program. Of this, two percent (2%) is set aside for the Project Development and Traffic Management Systems projects. The remainder is allocated to each jurisdiction in the sub-area, based on a formula that accounts for the jurisdiction's population and total taxable sales. Based on sales tax data for Apple Valley for previous years, compared with Measure I receipts, Apple Valley receives an average of five (5%)

p. 59, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018. Motor vehicle in-lieu budgeted revenue FY 17/18 (\$60,000) ÷ population (74,701) = \$0.80 per capita.

p. 72, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018. Gas Tax (Section 2013, 2105, 2106, 2107, 2107.5) estimated revenues (\$1,567,761) ÷ population (74,701) = \$20.99 per capita.

<sup>&</sup>lt;sup>12</sup> p. A-9, Appendix A, "Measure I 2010-2040 Strategic Plan," April 1, 2009.

Taxable Sales in the 272 Largest Cities, by Type of Business, prepared by California State Board of Equalization.

San Bernardino Associated Governments Measure I Actual Distribution Summary Mountain/Desert Jurisdictions, Victor Valley Subarea.

annually of the total Victor Valley sub-area allocation. Although the actual allocations change annually, the review of sales tax and Measure I data indicates that the five percent (5%) average may be expected to remain consistent over project buildout. Therefore, this analysis assumes the same allocation amount for each phase of the twenty (20)-year buildout.

### Investment Income

The fiscal analysis assumes that the Town will also receive investment earnings on new revenues. To project potential investment earnings, the fiscal model applies the historical average interest rate of the ninety (90)-Day Treasury Bill. During the twenty-five (25)-year period from 1993 through 2017, the average interest earned on the ninety (90)-Day Treasury Bill was 2.43%. The fiscal model calculates investment income for all annual revenues included in this report.

### **One-Time Revenues**

### **Development Impact Fees**

As lands in the annexation area develop, the Town will collect developer impact fees (DIF) based on its adopted fee schedule. These are one-time fees collected at the time that residential units and commercial and industrial square footage are constructed. This analysis estimates total DIF fees for General Government Facilities, Transportation Impacts, and Law Enforcement Facilities. Because these are one-time rather than annual fees, they are not included in Table 5, but are summarized separately in Table 6.

Table 3
Development Impact Fees

	<b>General Government</b>	Law Enforcement	Transportation
<b>Development Type</b>	<b>Facilities Fee</b>	<b>Facilities Fee</b>	<b>Impacts Fee</b>
Single-Family Residential	\$407.07/unit	\$147.64/unit	\$6,745.00/unit
Commercial/Industrial	\$0.03/sq. ft.	\$0.20/sq. ft.	varies based on
	_	_	development
			type and size <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> The following Transportation Impact Fees were used in this analysis based on anticipated development in the annexation area:

General Commercial: 100,001 to 200,000 sq.ft. = \$3.02851/sq.ft. Regional Commercial: 100,001 to 200,000 sq.ft. = \$3.02851/sq.ft. Office Commercial: 10,001 to 100,000 sq.ft. = \$2.23597/sq.ft.

Planned Industrial: Industrial Parks = \$1.63566/sq.ft.

Hotel: \$4,721.50/hotel

Source: Town of Apple Valley Development Impact Fee schedule.

Average historical interest rate determined using data from Table B.3, "Riverside County Guide to Preparing Fiscal Impact Reports," January 1995 and "3-Month Treasury Constant Maturity Rates," from the Federal Reserve Board of Governors, as provided by The Financial Forecast Center.

### TOWN OF APPLE VALLEY ANNEXATION NO. 2018-001

### FISCAL IMPACT ANALYSIS

### III. Potential Costs from Annexation No. 2018-001

### A. Potential Costs to the Town of Apple Valley

Future development of lands in the annexation area will not only generate additional revenues, but will also generate additional municipal costs. There will be expenditures for general government services as well as the expansion and/or extension of infrastructure, utilities, roads and other public services, particularly public safety. The fiscal model projects the Town's costs of providing general government services, public safety, and transportation/roadway maintenance to new development on lands in the annexation area.

### Costs of General Government

Costs of General Government are funded through the Town's General Fund. Costs to the Town associated with general government include Town-wide services, such as employee salaries and benefits, postage, printing, travel, equipment maintenance and repairs, contract services, computers, vehicles and other items necessary for the day-to-day functioning of government. It includes public and community services, such as code compliance and animal control, as well as municipal and support services. These are further described in the Plan of Services. The Town also allocates General Fund monies annually to support programs and services provided by the Apple Valley Parks and Recreation Department.

For residential development, this analysis uses information provided in the Town's FY 2017-2018 budget to translate costs into a per capita factor for General Fund expenditures. It applies that amount to the anticipated buildout population. The result is the estimated cost of providing general government services to future residents.

General Government costs for Fiscal Year 2017/18 are shown in Table 4. As shown, approximately \$14.8 million are budgeted for General Government expenditures for Fiscal Year 2017/18. Based on the 2017 population of 74,701 residents, this equals \$198/capita. The fiscal model applies the \$198/capita to the projected annexation area buildout population.

Table 4
General Governments Costs, Fiscal Year 2017/18

Service		Cost
General Government <sup>1</sup>		\$9,755,168
Public/Municipal Services <sup>2</sup>		\$3,793,831
Community/Economic Development <sup>3</sup>		\$1,270,921
	Total:	\$14,819,920

<sup>&</sup>lt;sup>1</sup> includes Town Council, Attorney, Manager, Clerk, Finance, Public Info., Human Resources, Information Systems, General Govt., and Public Facilities

For residential development, the analysis also projects costs of providing parks and recreational services to future residents. Parks and Recreation expenditures are budgeted at \$3,625,245 or \$48.53 per capita (based on population of 74,701). This factor is applied to the projected buildout population of the annexation area.

In order to capture costs for provision of General Government to commercial and industrial development, it was necessary to derive factors based on a per acre or per square foot basis. No such factors were available through the Town. Therefore, this analysis uses factors provided in the Riverside County Guide to Preparing Fiscal Impact Reports, adjusted for inflation, to arrive at costs based on year 2017 dollars (\$114.81 per acre).<sup>17</sup>

The costs of General Government do not include expenditures for public safety or roadway maintenance. Those costs have been calculated separately and are discussed below.

### Costs of Public Safety Services

The same method used to calculate general government costs has been used to project costs of providing public safety services to future residents in the annexation area. In Apple Valley, these costs include provision of law enforcement services and emergency preparedness. Public safety expenditures in Apple Valley are primarily those associated with the contract the Town maintains with the San Bernardino Sherriff's Department. Additional costs associated with facilities used by the department, and those associated with emergency preparedness activities are included in this calculation.

For residential development, the fiscal model translates these expenditures (\$13,908,851<sup>18</sup>) into a per capita factor (\$186/capita, based on 2017 population of 74,701) and applies this factor to the anticipated buildout population of the annexation area.

<sup>&</sup>lt;sup>2</sup> includes Public Services Admin., Animal Services, Code Enforcement, Building & Safety

<sup>&</sup>lt;sup>3</sup> includes Community Development, Engineering, Economic Development Source: p. 57, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018.

p. 107, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018.

<sup>&</sup>lt;sup>17</sup> Table A.2, Guide to Preparing Fiscal Impact Reports, Riverside County Administrative Office, January 1995.

Public Safety Expenditures, p. 176, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018.

For commercial and industrial development, cost factors for the provision of public safety services have been derived from the Riverside County Guide to Preparing Fiscal Impact Reports, adjusted to year 2017 dollars (\$451.89/acre).<sup>19</sup>

### Costs of Roadway Maintenance

Costs associated with repairing and maintaining future paved public roads in the annexation area are projected using a per road mile cost factor. There are 78 square miles and 423 paved public road miles<sup>20</sup> in Apple Valley's incorporated limits. This equates to 5.4 road miles per square mile.

The annexation area encompasses approximately 2.0 square miles. Using the average of 5.4 road miles per square mile of land area in Apple Valley, the proposed annexation area could potentially include 10.8 miles of paved public roadways at build out. This does not include commercial driveways, interior parking lots, or other paved facilities which could occur in the area, but they would be located on private property, and therefore would be privately maintained.

The fiscal model divides the Town's total annual roadway maintenance costs (\$2,425,605<sup>21</sup>) by the number of paved road miles in the Town (423) to determine an annual per road mile cost factor (\$5,734/mile), and applies this factor to the number of potential paved road miles in the annexation area.

Table A.2, Guide to Preparing Fiscal Impact Reports, Riverside County Administrative Office, January 1995.

<sup>&</sup>lt;sup>20</sup> Brad Miller, Apple Valley Engineering Department, personal communication, February 21, 2018.

p. 72, Street Maintenance Fund Total Budget, Town of Apple Valley Adopted Budget, Fiscal Year July 1, 2017 – June 30, 2018.

# TOWN OF APPLE VALLEY ANNEXATION NO. 2018-001

### FISCAL IMPACT ANALYSIS

### IV. BUILDOUT ASSUMPTIONS

#### Introduction

The buildout assumptions used to calculate the costs and revenues associated with Annexation No. 2018-001 are presented in this section. As previously noted, there are no specific projects currently proposed within the annexation area. Therefore, the analysis is based on general assumptions regarding build out of the annexation lands, consistent with the Apple Valley General Plan land use designations.

### A. Buildout Assumptions

This analysis assumes a twenty (20)-year buildout of the annexation area. Depending on market conditions, growth and development in the Town and the annexation area will rise and fall. For residential and industrial land, an even distribution of development has been assumed for the twenty (20)-year buildout period. For commercial land, it is assumed that only one 10 acre project, of a freeway convenience commercial nature would occur in year 4 or 5 (Phase I), and that the balance of commercial development would occur from years 6 to 20 (Phases II, III and IV). Commercial development in Phases II through IV has been distributed evenly. As the analysis has been conducted in constant 2018 dollars, the relative costs and revenues will be as calculated at build out of the annexation area, regardless of when this occurs. That is to say that although inflationary and recessionary factors will affect the Town's revenues and costs over time, the relative cost of providing services, the relative amount of revenues generated within the annexation area, and the surplus or shortfall to the Town, are represented in this analysis.

Assumptions used to calculate buildout units and square footage are based on the Town's zoning standards as well as typical land use intensities for building coverage in commercial and industrial projects. The following estimates have been made regarding residential, commercial and industrial land use intensities.

### Residential

The Estate Residential designation allows for up to one dwelling unit per 1 to 2.5 gross acres. It has been assumed that the maximum number of units, 247, could be constructed in the annexation area. Applying the Town's average household size of 3.07 persons per household yields an estimated buildout population of 759 residents.

### Commercial and Industrial

The General and Regional Commercial, and Office Professional designations assume a twenty-two percent (22%) building coverage. This accounts for driveways, parking lots, stormwater retention/detention facilities, and similar ancillary facilities.

The Planned Industrial designation assumes buildout of industrial lands at twenty-two percent (22%) lot coverage.

The following sub-sections summarize assumptions used to calculate various revenues that could be generated by build out of the annexation area.

### 1. Residential

As noted above, residential land uses proposed in the annexation area are assumed as single-family detached units on lots up to 5 acres.

### **Estate Residential**

- 62 single-family units constructed in each five (5)-year period, for a total of 247 units at build out.
- Unit value at \$262,400 per unit.

For residential property transfers, an annual resale rate of one percent (1%) change of ownership figures have been applied to residential units. These represent statistical averages that may be assumed to occur over the life of the annexation area, well beyond the build out year. This analysis also assumes that property transfer tax will begin in the fourth year of development (no resales in the first three years). No resales have been assumed for any of the rental units during the twenty (20)- year build out period.

### 2. Commercial

#### **General Commercial**

- 0 square feet developed in Phase I
- 44,689.67 square feet developed in Phases II, III, and IV, for a total of 134,069 square feet at build out.
- Per square foot value of \$55, based on recent new commercial/industrial construction valuation in the Town of Apple Valley.
- 90% leasable space for generating sales tax revenue

### **Regional Commercial**

The Regional Commercial tenant mix is not known at this time. However, the analysis assumes a mix of retail, office, and a 125-room hotel that is expected to be freeway serving.

- 95,932 square feet developed in Phase I
- 1,186,367 square feet developed in each of Phases II, III, and IV, for a total of 3,655,032 square feet at build out.
- Per square foot value of \$55, based on recent new commercial/industrial construction valuation in the Town of Apple Valley.
- 90% leasable space for generating sales tax revenue
- One 5-acre, 125-room freeway-serving hotel built in the sixth year of project buildout.

### Office Professional

- 0 square feet developed in Phase I
- 622,652.33 square feet developed in each of Phases II, III, and IV, for a total of 1,867,957 square feet at project build out.
- Per square foot value of \$55, based on recent new commercial/industrial construction valuation in the Town of Apple Valley.
- 30% leasable space for generating sales tax revenue

The analysis assumes no revenues from transfer of commercial properties in the annexation area. This assumption provides for a more conservative analysis of projected revenues.

### 3. Industrial

### **Planned Industrial**

- 911,554 square feet developed in each five (5)-year period, for a total of 3,646,216 square feet at build out.
- Per square foot value of \$55, based on recent new commercial/industrial construction valuation in the Town of Apple Valley.

As with commercial development, this analysis assumes no revenues from transfer of industrial properties in the annexation area.

# TOWN OF APPLE VALLEY ANNEXATION NO. 2018-001

### FISCAL IMPACT ANALYSIS

### V. COST/REVENUE ANALYSIS

#### A. Cost/Revenue Summaries

The following conclusions are based on the assumptions described above. It should be noted that all amounts are in Year 2018 dollars and are subject to rounding.

### 1. Town of Apple Valley

The total annual costs and revenues to the Town over each five-year phase of the twenty (20)-year buildout period are shown in Table 5. As shown, build out of the annexation area according to the proposed land use plan is projected to result in annual revenues of approximately \$12.1 million and annual costs of approximately \$940,000. This does not account for all possible revenues and costs that could be generated, but includes those described and analyzed in this study.

It should be noted that Table 5 does not include revenues from developer impact fees, which are one-time fees that occur at the time of construction. This analysis projects that the Town could receive DIF revenues of approximately \$2.4 million from new development during Phases I, and \$7.7 million during Phases II, III, and IV. DIF revenues are expected to be higher during Phases II, III, and IV due to commercial development, and slightly higher during Phase II due to assumed development of a hotel. These revenues are shown separately in Table 6.

Tables 5 and 6 summarize detailed calculations that have been prepared for each revenue and cost category, and DIF revenues, associated with the annexation. Appendix A presents the individual tables, showing the detailed calculations for each revenue and cost category.

It is expected that the annexation area's primary revenue source will be sales tax during Phases II, III, and IV since, with the exception of some grocery store sales, all retail sales generate sales tax. At buildout, the annexation area could generate approximately \$11.2 million in sales tax annually to the Town.

The second largest revenue source is expected to be property taxes, which are projected to total \$161,418 in General Fund revenue annually at buildout.

Table 5
Town of Apple Valley
Potential Costs/Revenues at Buildout of Annexation Area

1 otential Costs/Acvenues at	Buildout of Annexation Area  Buildout Phase				
	Phase I Phase II Phase III Phase IV				
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
ANNUAL REVENUES					
General Fund:					
Property Tax	\$20,052	\$67,174	\$114,296	\$161,418	
Property Transfer Tax	\$9,258	\$12,375	\$15,955	\$19,418	
Local Sales Tax	\$237,786	\$3,910,740	\$7,583,695	\$11,256,649	
Transient Occupancy Tax	\$0	\$207,594	\$207,594	\$207,594	
Motor Vehicle In-Lieu	\$152	\$303	\$455	\$607	
Restricted Funds:	, , , , , , , , , , , , , , , , , , ,	*	*	*	
Highway Users Gas Tax	\$3,979	\$7,958	\$11,937	\$15,917	
Measure I	\$4,161	\$68,438	\$132,715	\$196,991	
ANNUAL COSTS	,	,	,	*	
General Fund:					
General Government Costs					
General Government/Town-wide Services	\$2,990	\$11,202	\$19,414	\$27,626	
General Government/Residential	\$37,687	\$75,375	\$113,062	\$150,749	
General Government/Parks and Recreation	\$9,237	\$18,474	\$27,712	\$36,949	
General Government/Municipal Services	\$223	\$834	\$1,445	\$2,056	
General Government/Support Services	\$8,842	\$33,123	\$57,403	\$81,684	
Subtotal:	\$58,980	\$139,008	\$219,036	\$299,064	
Restricted Funds:					
Public Safety Costs					
Town-wide Public & Police Protection Services	\$76,764	\$226,618	\$376,472	\$526,326	
Town-Wide Services, Emergency Services	\$394	\$789	\$1,183	\$1,577	
Municipal Services, Public Protection Services	\$11,865	\$20,933	\$36,278	\$51,623	
Subtotal:	\$89,024	\$248,340	\$413,934	\$579,527	
Roadway Maintenance Costs	\$15,549	\$31,098	\$46,646	\$62,195	
SUMMARY OF REVENUES/COSTS:					
Revenues:					
Total Annual General Fund Revenues	\$267,248	\$4,198,187	\$7,921,994	\$11,645,686	
Total Annual Restricted Fund Revenues	\$8,140	\$76,396	\$144,652	\$212,908	
Subtotal:	\$275,388	\$4,274,583	\$8,066,646	\$11,858,593	
Historic Average Interest Rate on 90-Day Treasury Bills	2.43%	2.43%	2.43%	2.43%	
Anticipated Interest Earned on Revenues	\$6,692	\$103,872	\$196,019	\$288,164	
<b>Total Annual Revenues at Phase Buildout</b>	\$282,080	\$4,378,455	\$8,262,665	\$12,146,757	
Costs:					
Total Annual General Fund Costs	\$58,980	\$139,008	\$219,036	\$299,064	
Total Annual Restricted Fund Costs	\$104,572	\$279,438	\$460,580	\$641,722	
Total Annual Costs at Phase Buildout	\$163,552	\$418,445	\$679,616	\$940,786	
ANNUAL CASHFLOW AT PHASE BUILDOUT	\$118,528	\$3,960,010	\$7,583,050	\$11,205,972	

Table 6
Town of Apple Valley
Potential Development Impact Fee Revenue at Buildout of Annexation Area
(one time only)

General Government Fees	\$55,361	\$108,094	\$108,094	\$108,094
Transportation Impact Fees	\$2,198,027	\$7,032,716	\$7,027,995	\$7,027,995
Law Enforcement Impact Fees	\$210,614	\$562,169	\$562,169	\$562,169
<b>Total Developer Impact Fee Revenues</b>	\$2,464,002	\$7,702,980	\$7,698,258	\$7,698,258

### B. Conclusion

As shown in Tables 5 and 6, based on the underlying assumptions presented herein, development of lands in Annexation No. 2018-001 based on land use designations set forth by the Town is expected to result in long-term revenues to the Town. In the overall, cash flows to the Town are expected to be positive in the near-, mid-, and long-term.

Development may occur at differing rates during the buildout period, and market conditions may fluctuate. Costs and revenues are expected to vary annually based on actual phasing of development. Nonetheless, based on this analysis, the fiscal impact of the annexation should remain positive if all land uses develop in a balanced manner.

### Appendix A

**Detailed Cost and Revenue Tables** 

#### Property Tax Revenue from Residential Development

	Buildout Phase					
Land Use Designation: Estate Residential (1 du/1-2.5 gross ac) Total No. Acres: 247 No. of Potential Buildout Units: 247	Phase I (Yrs. 1-5)	Phase II (Yrs. 6-10)	Phase III (Yrs. 11-15)	Phase IV (Yrs. 16-20)		
Number of acres developed during phase	61.75	61.75	61.75	61.75		
Average density (units/acre)	1	1	1	1		
Maximum potential units constructed during this phase	61.75	61.75	61.75	61.75		
Number of total potential units constructed at phase buildout	62	124	185	247		
Median housing value, new construction <sup>1</sup>	\$262,400	\$262,400	\$262,400	\$262,400		
Total Value	\$16,203,200	\$32,406,400	\$48,609,600	\$64,812,800		
Property Tax Rate	1%	1%	1%	1%		
Total Property Tax Collected at phase buildout	\$162,032	\$324,064	\$486,096	\$648,128		
Percent of Property Tax Allocated to Town of Apple Valley General Fund <sup>2</sup>	2.8%	2.8%	2.8%	2.8%		
Total Amount Allocated to Apple Valley General Fund at phase buildout	\$4,537	\$9,074	\$13,611	\$18,148		

<sup>&</sup>lt;sup>1</sup>Source: Inland Empire Quarterly Economic Report, Inland Empire Economic Partnership, Vol. 29, No. 4, October 2017.

<sup>&</sup>lt;sup>2</sup>Source: Town of Apple Valley Budget (5.6% to General Fund), reduced by 50% per County's "Share the Pain" revenue-sharing policy.

Property Tax Revenue from Commercial Development				
Land Use Designation: General Commercial		Buildou	ıt Phase	
Total No. Acres: 14	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 134,069	(Yrs. 1-5)	(Yrs. 6-10)	(Yrs. 11-15)	(Yrs. 16-20)
Number of acres developed during phase	0.00	4.67	4.67	4.67
Number of square feet constructed during this phase	0.00	44,689.67	44,689.67	44,689.67
Total square feet constructed at phase buildout	0	44,690	89,379	134,069
Average value per square foot <sup>1</sup>	\$55	\$55	\$55	\$55
Total average value	\$0	\$2,457,932	\$4,915,863	\$7,373,795
Property Tax Rate	1%	1%	1%	1%
Total Property Tax Collected at Phase Buildout	\$0	\$24,579	\$49,159	\$73,738
Percent of Property Tax Allocated to Town of Apple Valley General Fund <sup>2</sup>	2.8%	2.8%	2.8%	2.8%
Total Amount Allocated to Apple Valley General Fund at phase buildout	\$0	\$688	\$1,376	\$2,065

 $<sup>^{1}\,</sup>Based\ on\ Year\ 2014-17\ Commercial/Industrial\ building\ permit\ data,\ Town\ of\ Apple\ Valley\ Building\ Division.$ 

<sup>&</sup>lt;sup>2</sup> Source: Town of Apple Valley Budget (5.6% to General Fund), reduced by 50% per County's "Share the Pain" revenue-sharing policy.

Land Use Designation: Regional Commercial	Buildout Phase				
Total No. Acres: 381 Potential Square Feet at Buildout: 3,655,032	Phase I (Yrs. 1-5)	Phase II (Yrs. 6-10)	Phase III (Yrs. 11-15)	Phase IV (Yrs. 16-20)	
Number of acres developed during phase	10.00	123.67	123.67	123.67	
Number of square feet constructed during this phase	95,932	1,186,367	1,186,367	1,186,367	
Total square feet constructed at phase buildout	95,932	1,282,299	2,468,666	3,655,033	
Average value per square foot <sup>1</sup>	\$55	\$55	\$55	\$55	
Total average value of all property	\$5,276,260	\$70,526,445	\$135,776,630	\$201,026,815	
Property Tax Rate	1%	1%	1%	1%	
Total Property Tax Collected at Phase Buildout	\$52,763	\$705,264	\$1,357,766	\$2,010,268	
Percent of Property Tax Allocated to Town of Apple Valley General Fund <sup>2</sup>	2.8%	2.8%	2.8%	2.8%	
Total Amount Allocated to Apple Valley General Fund at phase buildout	\$1,477	\$19,747	\$38,017	\$56,288	

<sup>&</sup>lt;sup>1</sup> Based on Year 2014-17 Commercial/Industrial building permit data, Town of Apple Valley Building Division.

<sup>2</sup>Source: Town of Apple Valley Budget (5.6% to General Fund), reduced by 50% per County's "Share the Pain" revenue-sharing policy.

Land Use Designation: Office Professional	Buildout Phase				
Total No. Acres: 195	Phase I	Phase II	Phase III	Phase IV	
Potential Square Feet at Buildout: 1,867,957	(Yrs. 1-5)	(Yrs. 6-10)	(Yrs. 11-15)	(Yrs. 16-20)	
Number of acres developed during phase	0.00	65.00	65.00	65.00	
Number of square feet constructed during this phase	0.00	622,652.33	622,652.33	622,652.33	
Total square feet constructed at phase buildout	0	622,652	1,245,305	1,867,957	
Average value per square foot <sup>1</sup>	\$55	\$55	\$55	\$55	
Total average value of all property	\$0	\$34,245,878	\$68,491,757	\$102,737,635	
Property Tax Rate	1%	1%	1%	1%	
Total Property Tax Collected at Phase Buildout	\$0	\$342,459	\$684,918	\$1,027,376	
Percent of Property Tax Allocated to Town of Apple Valley General Fund <sup>2</sup>	2.8%	2.8%	2.8%	2.8%	
Total Amount Allocated to Apple Valley General Fund at phase buildout	\$0	\$9,589	\$19,178	\$28,767	

<sup>&</sup>lt;sup>1</sup> Based on Year 2014-17 Commercial/Industrial building permit data, Town of Apple Valley Building Division.

<sup>&</sup>lt;sup>2</sup> Source: Town of Apple Valley Budget (5.6% to General Fund), reduced by 50% per County's "Share the Pain" revenue-sharing policy.

Property Tax Revenue from Industrial Development				
Land Use Designation: Planned Industrial		Buildou	t Phase	
Total No. Acres: 380 Potential Square Feet at Buildout: 3,646,216	Phase I (Yrs. 1-5)	Phase II (Yrs. 6-10)	Phase III (Yrs. 11-15)	Phase IV (Yrs. 16-20)
Number of acres developed during phase	95.00	95.00	95.00	95.00
Number of square feet constructed during this phase	911,554	911,554	911,554	911,554
Total square feet constructed at phase buildout	911,554	1,823,108	2,734,662	3,646,216
Average value per square foot <sup>1</sup>	\$55.00	\$55.00	\$55.00	\$55.00
Total average value of all property	\$50,135,470	\$100,270,940	\$150,406,410	\$200,541,880
Property Tax Rate	1%	1%	1%	1%
Total Property Tax Collected at Phase Buildout	\$501,355	\$1,002,709	\$1,504,064	\$2,005,419
Percent of Property Tax Allocated to Town of Apple Valley General Fund <sup>2</sup>	2.8%	2.8%	2.8%	2.8%
Total Amount Allocated to Town of Apple Valley General Fund at Phase Buildout	\$14,038	\$28,076	\$42,114	\$56,152

<sup>&</sup>lt;sup>1</sup> Based on Year 2014-17 Commercial/Industrial building permit data, Town of Apple Valley Building Division.

<sup>&</sup>lt;sup>2</sup>Source: Town of Apple Valley Budget (5.6% to General Fund), reduced by 50% per County's "Share the Pain" revenue-sharing policy.

APPLE VALLEY GENERAL FUND Property Tax Revenue Summary Table					
	Buildout Phase				
	Phase I Phase II Phase III Pha				
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Total property tax revenue from residential development	\$4,537	\$9,074	\$13,611	\$18,148	
Total property tax revenue from commercial development	\$1,477	\$30,024	\$58,572	\$87,119	
Total property tax revenue from industrial development	\$14,038	\$28,076	\$42,114	\$56,152	
Total property tax revenue from all development \$20,052 \$67,174 \$114,296 \$161,418					

Property Transfer Tax Revenue				
from Residential Development				
•		Buildo	ut Phase	
Land Use Designation: Estate Residential (1 du/1-2.5 gross ac)				
Total No. Acres: 247	Phase I	Phase II	Phase III	Phase IV
No. of Potential Buildout Units: 247	(Yrs.1-5)	(Yrs. 6-10)	(Yrs. 11-15)	(Yrs. 16-20)
New Units (100% of market value is subject to tax)		, , , , ,	,	
Number of acres developed during phase	61.75	61.75	61.75	61.75
Maximum density permitted (units/acre)	1	1	1	1
Number of new units during this phase	62	62	62	62
Market Value per unit	\$262,400	\$262,400	\$262,400	\$262,400
Amount Subject to Property Transfer Tax for all new units sold	\$16,203,200	\$16,203,200	\$16,203,200	\$16,203,200
Existing Units(80% of market value is subject to tax)		, , ,	, , ,	, , , ,
Number of units constructed in 1st year of this phase	12	12	12	12
Number of existing units changing ownership in 1st year of this phase	Ø	4	10	16
Number of units constructed in 2nd year of this phase	12	12	12	12
Number of existing units changing ownership in 2nd year of this phase	Ø	5	11	17
Number of units constructed in 3rd year of this phase	12	12	12	12
Number of existing units changing ownership in 3rd year of this phase	Ø	6	12	18
Number of units constructed in 4th year of this phase	12	12	12	12
Number of existing units changing ownership in 4th year of this phase	1	7	13	19
Number of units constructed in 5th year of this phase	12	13	13	13
Number of existing units changing ownership in 5th year of this phase	2	8	15	21
Total number of units constructed during this phase	60	61	61	61
Total number of existing units changing ownership during this phase	3	30	61	91
Market Value per unit	\$262,400	\$262,400	\$262,400	\$262,400
Unencumbered Value per unit (80% of market value)	\$209,920	\$209,920	\$209,920	\$209,920
Amount subject to Property Transfer Tax for all existing units				. ,
changing ownership during this phase	\$629,760	\$6,297,600	\$12,805,120	\$19,102,720
New Units & Existing Units Combined				
Total amount subject to Property Transfer Tax (includes all new units	\$16,922,060	¢22.500.000	\$20,000,220	\$25,205,020
sold & all existing units changing ownership)	\$16,832,960	\$22,500,800	\$29,008,320 0.11%	\$35,305,920 0.11%
Property Transfer Tax Rate				
Total Property Transfer Tax Collected at phase buildout	\$18,516	\$24,751	\$31,909	\$38,837
Percent of Property Transfer Tax allocated to Apple Valley <sup>1</sup>	50%	50%	50%	50%
Total Property Transfer Tax Allocated to Apple Valley at phase buildout	\$9,258	\$12,375	\$15,955	\$19,418
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<sup>&</sup>lt;sup>1</sup> California City Documnentary and Property Transfer Tax Rates, California Local Government Finance Almanac, www.CaliforniaCityFinance.com, (sponsored by League of California Cities).

APPLE VALLEY Property Transfer Tax Revenue Summary Table					
Buildout Phase					
Phase I   Phase II   Phase IV					
Total property transfer tax reven	ie	\$9,258	\$12,375	\$15,955	\$19,418

Sales Tax and Measure I Revenue from Commercial	Development				
Land Use Designation: General Commercial	Buildout Phase				
Total No. Acres: 14 Potential Square Feet at Buildout: 134,069	Phase I (Yrs 1-5)	Phase II (Yrs 6-10)	Phase III (Yrs 11-15)	Phase IV (Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during phase	0.00	4.67	4.67	4.67	
Number of square feet constructed during this phase	0.00	44,689.67	44,689.67	44,689.67	
Total square feet constructed at phase buildout	0	44,690	89,379	134,069	
Calculation of Total Leasable Square Feet					
Percent leasable space	90%	90%	90%	90%	
No. of leasable square feet at phase buildout	0	40,221	80,441	120,662	
"Neighborhood Commercial" Development <sup>1</sup>					
Percent of leasable sq. ft. considered Neighborhood Commercial	50%	50%	50%	50%	
No. of leasable sq. ft. considered Neighborhood Commercial	0	20,110	40,221	60,331	
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$326.13	\$326.13	\$326.13	\$326.13	
Total annual sales from Neighborhood Commercial development	\$0	\$6,558,588	\$13,117,177	\$19,675,765	
"Community Commercial" Development <sup>1</sup>					
Percent of leasable sq. ft. considered Community Commercial	50%	50%	50%	50%	
No. of leasable sq. ft. considered Community Commercial	0	20,110	40,221	60,331	
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$286.10	\$286.10	\$286.10	\$286.10	
Total annual sales from Community Commercial development	\$0	\$5,753,571	\$11,507,142	\$17,260,713	
"Regional Commercial" Development <sup>1</sup>					
Percent of leasable sq. ft. considered Regional Commercial	0%	0%	0%	0%	
No. of leasable sq. ft. considered Regional Commercial	0	0	0	0	
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$275.41	\$275.41	\$275.41	\$275.41	
Total annual sales from Regional Commercial development	\$0	\$0	\$0	\$0	
Calculation of Total Sales Tax Revenues					
Total annual sales at phase buildout	\$0	\$12,312,160	\$24,624,319	\$36,936,479	
Local sales tax rate	1%	1%	1%	1%	
Annual sales tax revenue collected by Town at phase buildout	\$0	\$123,122	\$246,243	\$369,365	
Calculation of Measure I Revenues					
Measure I tax rate	0.50%	0.50%	0.50%	0.50%	
Annual Measure I revenue collected in annexation area at phase buildout	\$0	\$61,561	\$123,122	\$184,682	
Percent allocated to Victor Valley Sub-Area	70.0%	70.0%	70.0%	70.0%	
Annual amount allocated to Victor Valley Sub-Area	\$0	\$43,093	\$86,185	\$129,278	
*Percent allocated to Apple Valley	5%	5%	5%	5%	
Annual amount allocated to Apple Valley	\$0	\$2,155	\$4,309	\$6,464	

<sup>&</sup>lt;sup>1</sup> Based on definitions provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008

<sup>&</sup>lt;sup>2</sup> Based on average sales volumes for U.S. Neighborhood Shopping Centers (Table 6-1) and U.S. Super Community/Community Shopping Centers (Table 5-1), and U.S. Regional Shopping Centers (Table 4-1) provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008.

Land Use Designation: Regional Commercial	T	Buildout	Phase	
Total No. Acres: 381	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 3,655,032	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data	10.00	122.65	100.65	100 (5
Number of acres developed during phase	10.00	123.67	123.67	123.67
Number of square feet constructed during this phase	95,932	1,186,367	1,186,367	1,186,367
Total square feet constructed at phase buildout	95,932	1,282,299	2,468,666	3,655,033
Calculation of Total Leasable Square Feet				
Percent leasable space	90%	90%	90%	90%
No. of leasable square feet at phase buildout	86,339	1,154,069	2,221,799	3,289,530
"Neighborhood Commercial" Development <sup>1</sup>		ı		
Percent of leasable sq. ft. considered Neighborhood Commercial	0%	0%	0%	0%
No. of leasable sq. ft. considered Neighborhood Commercial	0	0	0	0
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$326.13	\$326.13	\$326.13	\$326.13
Total annual sales from Neighborhood Commercial development	\$0	\$0	\$0	\$0
"Community Commercial" Development <sup>1</sup>				
Percent of leasable sq. ft. considered Community Commercial	0%	0%	0%	0%
No. of leasable sq. ft. considered Community Commercial	0	0	0	0
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$286.10	\$286.10	\$286.10	\$286.10
Total annual sales from Community Commercial development	\$0	\$0	\$0	\$0
"Regional Commercial" Development <sup>1</sup>				
Percent of leasable sq. ft. considered Regional Commercial	100%	100%	100%	100%
No. of leasable sq. ft. considered Regional Commercial	86,339	1,154,069	2,221,799	3,289,530
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$275.41	\$275.41	\$275.41	\$275.41
Total annual sales from Regional Commercial development	\$23,778,569	\$317,842,171	\$611,905,773	\$905,969,375
Calculation of Total Sales Tax Revenues	•	•	<u> </u>	
Total annual sales at phase buildout	\$23,778,569	\$317,842,171	\$611,905,773	\$905,969,375
Local sales tax rate	1%	1%	1%	1%
Annual sales tax revenue collected by Town at phase buildout	\$237,786	\$3,178,422	\$6,119,058	\$9.059.694
Calculation of Measure I Revenues		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* - 7 7 1	*- , ,
Measure I tax rate	0.50%	0.50%	0.50%	0.50%
Annual Measure I revenue collected in annexation area at phase buildout	\$118,893	\$1,589,211	\$3,059,529	\$4,529,847
Percent allocated to Victor Valley Sub-Area	70.0%	70.0%	70.0%	70.0%
Annual amount allocated to Victor Valley Sub-Area	\$83,225	\$1,112,448	\$2,141,670	\$3,170,893
*Percent allocated to Apple Valley	5%	5%	5%	5%
Annual amount allocated to Apple Valley	\$4,161	\$55,622	\$107,084	\$158,545

<sup>&</sup>lt;sup>1</sup> Based on definitions provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008

<sup>&</sup>lt;sup>2</sup>Based on average sales volumes for U.S. Neighborhood Shopping Centers (Table 6-1) and U.S. Super Community/Community Shopping Centers (Table 5-1), and U.S. Regional Shopping Centers (Table 4-1) provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008.

Land Use Designation: Office Professional				
Total No. Acres: 195		Buildout	Phase	
Potential Square Feet at Buildout: 1,867,957	Phase I	Phase II	Phase III	Phase IV
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during phase	0.00	65.00	65.00	65.00
Number of square feet constructed during this phase	0	622,652	622,652	622,652
Total square feet constructed at phase buildout	0	622,652	1,245,305	1,867,957
Calculation of Total Leasable Square Feet		· ·		
Percent leasable space	30%	30%	30%	30%
No. of leasable square feet at phase buildout	0	186,796	373,591	560,387
"Neighborhood Commercial" Development <sup>1</sup>	V	100,770	373,871	200,201
Percent of leasable sq. ft. considered Neighborhood Commercial	100%	100%	100%	100%
No. of leasable sq. ft. considered Neighborhood Commercial	0	186,796	373,591	560,387
		ĺ	Ź	,
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$326.13	\$326.13	\$326.13	\$326.13
Total annual sales from Neighborhood Commercial development	\$0	\$60,919,682	\$121,839,363	\$182,759,045
"Community Commercial" Development				
Percent of leasable sq. ft. considered Community Commercial	0%	0%	0%	0%
No. of leasable sq. ft. considered Community Commercial	0	0	0	0
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$286.10	\$286.10	\$286.10	\$286.10
Total annual sales from Community Commercial development	\$0	\$0	\$0	\$0
"Regional Commercial" Development <sup>1</sup>				
Percent of leasable sq. ft. considered Regional Commercial	0%	0%	0%	0%
No. of leasable sq. ft. considered Regional Commercial	\$0	\$0	\$0	\$0
Ave. annual sales volume per sq. ft. <sup>2</sup>	\$275.41	\$275.41	\$275.41	\$275.41
Total annual sales from Regional Commercial development	\$0	\$0	\$0	\$0
Calculation of Total Sales Tax Revenues	•	•		
Total annual sales at phase buildout	\$0	\$60,919,682	\$121,839,363	\$182,759,045
Local sales tax rate	1%	1%	1%	1%
Annual sales tax revenue collected by Town at phase buildout	\$0	\$609,197	\$1,218,394	\$1,827,590
Calculation of Measure I Revenues	•		. , , , ,	. , ,
Measure I tax rate	0.50%	0.50%	0.50%	0.50%
	_ [			
Annual Measure I revenue collected in annexation area at phase buildout	\$0	\$304,598	\$609,197	\$913,795
Percent allocated to Victor Valley Sub-Area	70.0%	70.0%	70.0%	70.0%
Annual amount allocated to Victor Valley Sub-Area	\$0	\$213,219	\$426,438	\$639,657
*Percent allocated to Apple Valley	5%	5%	5%	5%
Annual amount allocated to Apple Valley  Based on definitions provided in "Dollars and Cents of Shopping Centers," U	\$0	\$10,661	\$21,322	\$31,983

<sup>&</sup>lt;sup>1</sup> Based on definitions provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008

<sup>&</sup>lt;sup>2</sup> Based on average sales volumes for U.S. Neighborhood Shopping Centers (Table 6-1) and U.S. Super Community/Community Shopping Centers (Table 5-1), and U.S. Regional Shopping Centers (Table 4-1) provided in "Dollars and Cents of Shopping Centers," Urban Land Institute, 2008.

Sales Tax Revenue					
Summary Table					
Buildout Phase					
	Phase I	Phase II	Phase III	Phase IV	
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Total sales tax revenue from all development	\$237,786	\$3,910,740	\$7,583,695	\$11,256,649	

Measure I Revenue				
Summary Table				
	Buildout Phase			
	Phase I	Phase II	Phase III	Phase IV
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Total Measure I revenue from all development	\$4,161	\$68,438	\$132,715	\$196,991

Transient Occupancy Tax Revenue				
Land Use Designation: Regional Commercial		Buildou	t Phase	
Total No. Acres: 5	Phase I	Phase II	Phase III	Phase IV
Potential Rooms at Buildout: 125	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data		-		
Number of acres developed during phase	0.00	5.00	0.00	0.00
Maximum potential rooms constructed during this phase	0	125	0	0
Number of total potential rooms existing at phase buildout	0	125	125	125
Calculation of TOT Revenue		-		
*Average room rate (\$ per night)	\$0.00	\$100.00	\$100.00	\$100.00
*Average occupancy rate	0%	65%	65%	65%
Annual revenue from all rooms at phase buildout	\$0	\$2,965,625	\$2,965,625	\$2,965,625
Transient Occupancy Tax Rate	7%	7%	7%	7%
Annual TOT revenues at phase buildout	\$0	\$207,594	\$207,594	\$207,594

<sup>\*</sup>Estimates based on local conditions

<sup>1</sup> Fiscal analysis assumes Regional Commercial lands will include one 5-acre, 125-room hotel built in the 6th year.

Transient Occupancy Tax Revenue				
Summary Table				
Buildout Phase				
	Phase I	Phase II	Phase III	Phase IV
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Total Transient Occupancy Tax Revenue from all development	\$0	\$207,594	\$207,594	\$207,594

Motor Vehicle In-Lieu Revenue				
Land Use Designation: Estate Residential (1 du/1-2.5 gross ac)		Buildou	t Phase	
Total No. Acres: 247	Phase I	Phase II	Phase III	Phase IV
No. of Potential Buildout Units: 247	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during phase	61.75	61.75	61.75	61.75
Maximum density permitted (units/acre)	1.0	1.0	1.0	1.0
Maximum potential units constructed during this phase	62	62	62	62
Number of total potential units constructed at phase buildout	62	124	185	247
Calculation of Annual Motor Vehicle In-Lieu Revenue				
Average Persons Per Household <sup>1</sup>	3.07	3.07	3.07	3.07
Potential Population at Phase Buildout	190	379	569	758
Anticipated Annual Per Capita Revenue	\$0.80	\$0.80	\$0.80	\$0.80
Annual Motor Vehicle In-Lieu Revenue at phase buildout	\$152	\$303	\$455	\$607

<sup>&</sup>lt;sup>1</sup> 2012-2016 American Community Survey 5-Year Estimates

Motor Vehicle In-Lieu Revenue					
		Buildou	it Phase		
	Phase I	Phase II	Phase III	Phase IV	
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Total Motor Vehicle In-Lieu Revenue from all development	\$152	\$303	\$455	\$607	

Highway Users Gas Tax Revenue					
Land Use Designation: Estate Residential (1 du/1-2.5 gross ac)	Buildout Phase				
Total No. Acres: 247	Phase I	Phase II	Phase III	Phase IV	
No. of Potential Buildout Units: 247	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during phase	61.75	61.75	61.75	61.75	
Maximum density permitted (units/acre)	1.0	1.0	1.0	1.0	
Maximum potential units constructed during this phase	62	62	62	62	
Number of total potential units constructed at phase buildout	62	124	185	247	
Calculation of Annual Gas Tax Revenue					
Average persons per household <sup>1</sup>	3.07	3.07	3.07	3.07	
Potential population at phase buildout	190	379	569	758	
Estimated annual per capita gas tax revenue	\$20.99	\$20.99	\$20.99	\$20.99	
Annual gas tax revenue at phase buildout	\$3,979	\$7,958	\$11,937	\$15,917	

<sup>&</sup>lt;sup>1</sup> 2012-2016 American Community Survey 5-Year Estimates

Highway User Gas Tax Revenue				
Summary Table				
		Buildou	ıt Phase	
	Phase I	Phase II	Phase III	Phase IV
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Total Gas Tax Revenue from all development	\$3,979	\$7,958	\$11,937	\$15,917

Development Impact Fees					
from Residential Development					
	Buildout Phase				
Land Use Designation: Estate Residential					
Total No. Acres: 247	Phase I	Phase II	Phase III	Phase IV	
No. of Potential Buildout Units: 247	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during phase	61.75	61.75	61.75	61.75	
Maximum density permitted (units/acre)	1	1	1	1	
Maximum potential units constructed during this phase	62	62	62	62	
Calculating DIF Revenues from General Government Facilities fees					
Per unit General Government Facilities Fee	\$407.07	\$407.07	\$407.07	\$407.07	
Total revenues from General Government Facilities Fees at phase buildout	\$25,136.57	\$25,136.57	\$25,136.57	\$25,136.57	
Calculating DIF Revenues from Transportation Impact Fees					
Per unit Transportation Impact Fees	\$6,745.00	\$6,745.00	\$6,745.00	\$6,745.00	
Total revenues from Transportation Impact Fees at phase buildout	\$416,503.75	\$416,503.75	\$416,503.75	\$416,503.75	
Calculating DIF Revenues from Law Enforcement Facilties Fees					
Per unit Law Enforcement Facilities Fee	\$147.64	\$147.64	\$147.64	\$147.64	
Total revenues from Law Enforcement Facilties Fees at phase buildout	\$9,116.77	\$9,116.77	\$9,116.77	\$9,116.77	

<b>Development Impact Fees</b>					
from Commercial Development					
	Buildout Phase				
Land Use Designation: General Commercial					
Total No. Acres: 14	Phase I	Phase II	Phase III	Phase IV	
Potential Square Feet at Buildout: 134,069	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during this phase	0.00	4.67	4.67	4.67	
Number of square feet developed at phase buildout	0.00	44,689.67	44,689.67	44,689.67	
Calculating DIF Revenues from General Government Facilities fees					
Per square foot General Government Facilities Fee	\$0.03	\$0.03	\$0.03	\$0.03	
Total revenues from General Government Facilities Fees at phase buildout	\$0.00	\$1,340.69	\$1,340.69	\$1,340.69	
Calculating DIF Revenues from Transportation Impact Fees					
Per Square Foot Transportation Impact Fees	\$3.02851	\$3.02851	\$3.02851	\$3.02851	
Total revenues from Transportation Impact Fees at phase buildout	\$0.00	\$135,343.10	\$135,343.10	\$135,343.10	
Calculating DIF Revenues from Law Enforcement Facilties Fees					
Per square foot Law Enforcement Facilities Fee	\$0.20	\$0.20	\$0.20	\$0.20	
Total revenues from Law Enforcement Facilties Fees at phase buildout	\$0.00	\$8,937.93	\$8,937.93	\$8,937.93	

Land Use Designation: Regional Commercial		Buildou	t Phase		
Total No. Acres: 381	Phase I	Phase II	Phase III	Phase IV	
Potential Square Feet at Buildout: 3,655,032	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during this phase	10.00	123.67	123.67	123.67	
Number of square feet developed at phase buildout	95,932	1,186,367	1,186,367	1,186,367	
Calculating DIF Revenues from General Government Facilities fees					
Per square foot General Government Facilities Fee	\$0.03	\$0.03	\$0.03	\$0.03	
Total revenues from General Government Facilities Fees at phase buildout	\$2,877.96	\$35,591.01	\$35,591.01	\$35,591.01	
Calculating DIF Revenues from Transportation Impact Fees (commercia	al buildings other than	hotels)			
Per square foot Transportation Impact Fees	\$3.02851	\$3.02851	\$3.02851	\$3.02851	
Total revenues from Transportation Impact Fees at phase buildout	\$290,531.02	\$3,592,924.32	\$3,592,924.32	\$3,592,924.32	
Calculating DIF Revenues from Transportation Impact Fees (hotels)					
Number of hotels developed during this phase	0	1	0	0	
Per hotel Transportation Impact Fees	\$4,721.40	\$4,721.50	\$4,721.50	\$4,721.50	
Total revenues from Transportation Impact Fees at phase buildout	\$0.00	\$4,721.50	\$0.00	\$0.00	
Calculating DIF Revenues from Law Enforcement Facilties Fees					
Per square foot Law Enforcement Facilities Fee	\$0.20	\$0.20	\$0.20	\$0.20	
Total revenues from Law Enforcement Facilties Fees at phase buildout	\$19,186.40	\$237,273.40	\$237,273.40	\$237,273.40	

Land Use Designation: Office Professional	Buildout Phase			
Total No. Acres: 195	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 1,867,957	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during this phase	0.00	65.00	65.00	65.00
Number of square feet developed at phase buildout	0.00	622,652.33	622,652.33	622,652.33
Per square foot General Government Facilities Fee	\$0.03	\$0.03	\$0.03	\$0.03
Total revenues from General Government Facilities Fees at phase buildout	\$0.00	\$18,679.57	\$18,679.57	\$18,679.57
Calculating DIF Revenues from Transportation Impact Fees				
Per square foot Transportation Impact Fees	\$2.23597	\$2.23597	\$2.23597	\$2.23597
Total revenues from Transportation Impact Fees at phase buildout	\$0.00	\$1,392,231.94	\$1,392,231.94	\$1,392,231.94
Calculating DIF Revenues from Law Enforcement Facilties Fees				
Per square foot Law Enforcement Facilities Fee	\$0.20	\$0.20	\$0.20	\$0.20
Total revenues from Law Enforcement Facilties Fees at phase buildout	\$0.00	\$124,530.47	\$124,530.47	\$124,530.47

## Development Impact Fees from Industrial Development

Land Use Designation: Planned Industrial	Buildout Phase					
Total No. Acres: 380	Phase I	Phase II	Phase III	Phase IV		
Potential Square Feet at Buildout: 3,646,216	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)		
Land Use Buildout Data						
Number of acres developed during this phase	95.00	95.00	95.00	95.00		
Number of square feet developed at phase buildout	911,554	911,554	911,554	911,554		
Calculating DIF Revenues from General Government Facilities fees						
Per square foot General Government Facilities Fee	\$0.03	\$0.03	\$0.03	\$0.03		
Total revenues from General Government Facilities Fees at phase buildout	\$27,346.62	\$27,346.62	\$27,346.62	\$27,346.62		
Calculating DIF Revenues from Transportation Impact Fees						
Per square foot Transportation Impact Fees	\$1.63566	\$1.63566	\$1.63566	\$1.63566		
Total revenues from Transportation Impact Fees at phase buildout	\$1,490,992.42	\$1,490,992.42	\$1,490,992.42	\$1,490,992.42		
Calculating DIF Revenues from Law Enforcement Facilties Fees	Calculating DIF Revenues from Law Enforcement Facilties Fees					
Per square foot Law Enforcement Facilities Fee	\$0.20	\$0.20	\$0.20	\$0.20		
Total revenues from Law Enforcement Facilties Fees at phase buildout	\$182,310.80	\$182,310.80	\$182,310.80	\$182,310.80		

<b>Develoment Impact Fees</b>				
Summary Table				
		Buildout	Phase	
	Phase I	Phase II	Phase III	Phase IV
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
General Government Facilities Fees				
Total Revenues from Residential Development at phase buildout	\$25,137	\$25,137	\$25,137	\$25,137
Total Revenues from Commercial Development at phase buildout	\$2,878	\$55,611	\$55,611	\$55,611
Total Revenues from Industrial Development at phase buildout	\$27,347	\$27,347	\$27,347	\$27,347
Total Revenues from all development at phase buildout	\$55,361	\$108,094	\$108,094	\$108,094
Transportation Impact Fees				
Total Revenues from Residential Development at phase buildout	\$416,504	\$416,504	\$416,504	\$416,504
Total Revenues from Commercial Development at phase buildout	\$290,531	\$5,125,221	\$5,120,499	\$5,120,499
Total Revenues from Industrial Development at phase buildout	\$1,490,992	\$1,490,992	\$1,490,992	\$1,490,992
Total Revenues from all development at phase buildout	\$2,198,027	\$7,032,717	\$7,027,996	\$7,027,996
Law Enforcement Facilities Fees				
Total Revenues from Residential Development at phase buildout	\$9,117	\$9,117	\$9,117	\$9,117
Total Revenues from Commercial Development at phase buildout	\$19,186	\$370,742	\$370,742	\$370,742
Total Revenues from Industrial Development at phase buildout	\$182,311	\$182,311	\$182,311	\$182,311
Total Revenues from all development at phase buildout	\$210,614	\$562,169	\$562,169	\$562,169
TOTAL DIF REVENUE from all development	\$2,464,002	\$7,702,981	\$7,698,259	\$7,698,259

Costs of General Government				
from Residential Development				
-		Buildout	Phase	
Land Use Designation: Estate Residential				
Total No. Acres: 247	Phase I	Phase II	Phase III	Phase IV
No. of Potential Buildout Units: 247	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data			•	
Number of acres developed during phase	62.0	62.0	62.0	62.0
Maximum density permitted (units/acre)	1	1	1	1
Maximum potential units constructed during this phase	62	62	62	62
Number of total potential units constructed at phase buildout	62	124	186	248
Average number of persons per household	3.07	3.07	3.07	3.07
Total no. of potential residents at phase buildout	190	381	571	761
Calculating Annual Costs of Parks/Rec			•	
Per capita cost of Parks/Recreation	\$48.53	\$48.53	\$48.53	\$48.53
Total costs of Parks/Recreation at phase buildout	\$9,237.20	\$18,474.40	\$27,711.60	\$36,948.80
Calculating Annual Costs of General Government				
Per capita cost of General Government	\$198.00	\$198.00	\$198.00	\$198.00
Total cost of General Government at phase buildout	\$37,687.32	\$75,374.64	\$113,061.96	\$150,749.28

Costs of General Government				
from Commercial Development				
Land Use Designation: General Commercial		Buildout 1	Phase	
Total No. Acres: 14	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 134,069	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data	-			
Number of acres developed during this phase	0.00	4.67	4.67	4.67
Number of acres developed at phase buildout	0.00	4.67	9.33	14.00
Calculating Annual Costs of General Government (Town-wide Service)				
Per acre cost of General Government	\$28.48	\$28.48	\$28.48	\$28.48
Total cost of General Government at phase buildout	\$0.00	\$132.91	\$265.81	\$398.72
Calculating Annual Costs of General Government (Municipal Services				
Per capita cost of General Government (Public/Community Services)	\$2.12	\$2.12	\$2.12	\$2.12
Total cost of General Government (Public/Community Services) at phase				
buildout	\$0.00	\$9.89	\$19.79	\$29.68
Calculating Annual Costs of General Government (Support Services)				
Per acre cost of General Government (Support Services)	\$84.21	\$84.21	\$84.21	\$84.21
Total cost of General Government (Support Services) at phase buildout	\$0.00	\$392.98	\$785.96	\$1,178.94

Cost factors based on Riverside County Guide General Fund Net Cost Multipliers for Commercial/Industrial uses, Table A.2.

Land Use Designation: Regional Commercial	Buildout Phase			
Total No. Acres: 381	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 3,655,032	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during this phase	10.00	123.67	123.67	123.67
Number of acres developed at phase buildout	10.00	133.67	257.33	381.00
Calculating Annual Costs of General Government (Town-wide Service	ee)			
Per acre cost of General Government (Town-wide Services)	\$28.48	\$28.48	\$28.48	\$28.48
Total cost of General Government (Town-wide Services) at phase buildout	\$284.80	\$3,806.83	\$7,328.85	\$10,850.88
Calculating Annual Costs of General Government (Municipal Service	es)			
Per capita cost of General Government (Public/Community Services)	\$2.12	\$2.12	\$2.12	\$2.12
Total cost of General Government (Public/Community Services) at phase				
buildout	\$21.20	\$283.37	\$545.55	\$807.72
Calculating Annual Costs of General Government (Support Services	)		•	
Per acre cost of General Government (Support Services)	\$84.21	\$84.21	\$84.21	\$84.21
Total cost of General Government (Support Services) at phase buildout	\$842.10	\$11,256.07	\$21,670.04	\$32,084.01

Land Use Designation: Office Professional		Buildout	Phase	
Total No. Acres: 195	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 1,867,957	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data			-	
Number of acres developed during this phase	0.00	65.00	65.00	65.00
Number of acres developed at phase buildout	0.00	65.00	130.00	195.00
Calculating Annual Costs of General Government (Town-wide Service	re)		-	
Per acre cost of General Government (Town-wide Services)	\$28.48	\$28.48	\$28.48	\$28.48
Total cost of General Government (Town-wide Services) at phase buildout	\$0.00	\$1,851.20	\$3,702.40	\$5,553.60
Calculating Annual Costs of General Government (Municipal Service	es)			
Per capita cost of General Government (Public/Community Services)	\$2.12	\$2.12	\$2.12	\$2.12
Total cost of General Government (Public/Community Services) at phase				
buildout	\$0.00	\$137.80	\$275.60	\$413.40
Calculating Annual Costs of General Government (Support Services	)			
Per acre cost of General Government (Support Services)	\$84.21	\$84.21	\$84.21	\$84.21
Total cost of General Government (Support Services) at phase buildout	\$0.00	\$5,473.65	\$10,947.30	\$16,420.95

# Costs of General Government from Industrial Development

Land Use Designation: Planned Industrial		Buildou	t Phase	
Total No. Acres: 380	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 3,646,216	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
*Number of acres developed during this phase	95.00	95.00	95.00	95.00
Number of acres developed at phase buildout	95.00	190.00	285.00	380.00
Calculating Annual Costs of General Government				
Per acre cost of General Government (Town-wide Services)	\$28.48	\$28.48	\$28.48	\$28.48
Total cost of General Government (Town-wide Services) at phase buildout	\$2,705.60	\$5,411.20	\$8,116.80	\$10,822.40
Calculating Annual Costs of General Government (Municipal Service	es)			
Per capita cost of General Government (Public/Community Services)	\$2.12	\$2.12	\$2.12	\$2.12
Total cost of General Government (Public/Community Services) at phase				
buildout	\$201.40	\$402.80	\$604.20	\$805.60
Calculating Annual Costs of General Government (Support Services)				
Per acre cost of General Government (Support Services)	\$84.21	\$84.21	\$84.21	\$84.21
Total cost of General Government (Support Services) at phase buildout	\$7,999.95	\$15,999.90	\$23,999.85	\$31,999.80

Costs of General Government				
Summary Table				
	Buildout Phase			
	Phase I Phase II Phase III Phase			
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Total Annual Costs of Parks/Rec (Residential)	\$9,237	\$18,474	\$27,712	\$36,949
Total Annual Costs of General Government (Residential)	\$37,687	\$75,375	\$113,062	\$150,749
Total Annual Costs of General Government (Town-wide Services)				
Total Annual Cost from Commercial Development at phase buildout	\$285	\$5,791	\$11,297	\$16,803
Total Annual Cost from Industrial Development at phase buildout	\$2,706	\$5,411	\$8,117	\$10,822
Subtotal	\$2,990	\$11,202	\$19,414	\$27,626
Total Annual Costs of General Government (Municipal Services)				
Total Annual Cost from Commercial Development at phase buildout	\$21	\$431	\$841	\$1,251
Total Annual Cost from Industrial Development at phase buildout	\$201	\$403	\$604	\$806
Subtotal	\$223	\$834	\$1,445	\$2,056
Total Annual Costs of General Government (Support Services)				
Total Annual Cost from Commercial Development at phase buildout	\$842	\$17,123	\$33,403	\$49,684
Total Annual Cost from Industrial Development at phase buildout	\$8,000	\$16,000	\$24,000	\$32,000
Subtotal	\$8,842	\$33,123	\$57,403	\$81,684
Total Cost for all General Government	\$58,980	\$139,008	\$219,036	\$299,064

Public Safety Costs					
for Residential Development					
	Buildout Phase				
Land Use Designation: Estate Residential (1 du/1-2.5 gross ac) Total No. Acres: 247 No. of Potential Buildout Units: 247	Phase I (Yrs 1-5)	Phase II (Yrs 6-10)	Phase III (Yrs 11-15)	Phase IV (Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during this phase	61.75	61.75	61.75	61.75	
Maximum density permitted (units/acre)	1.0	1.0	1.0	1.0	
Maximum potential units constructed during this phase	62	62	62	62	
Number of total potential units constructed at phase buildout	62	124	185	247	
Average number of persons per household	3.07	3.07	3.07	3.07	
Total no. of potential residents at phase buildout	190	379	569	758	
Calculating Annual Public Safety Costs (Town-wide Services, Police I	Protection)				
Per capita cost for Town-wide Services, Police Protection	\$184.12	\$184.12	\$184.12	\$184.12	
Total costs of Town-wide Services, Police Protection at phase buildout	\$34,904.09	\$69,808.18	\$104,712.27	\$139,616.35	
Calculating Annual Public Safety Costs (Emergency Services)					
Per capita cost for Municipal Services, Emergency Services	\$2.08	\$2.08	\$2.08	\$2.08	
Total costs of Municipal Services, Emergency Services at phase buildout	\$394.31	\$788.62	\$1,182.93	\$1,577.24	

Cost factors based on Town of Apple Valley population and Town Budget 2017/18

### Public Safety Costs for Commercial Development

Land Use Designation: General Commercial	Buildout Phase				
Total No. Acres: 14	Phase I	Phase II	Phase III	Phase IV	
Potential Square Feet at Buildout: 134,069	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during this phase	0.00	4.67	4.67	4.67	
Number of acres developed at phase buildout	-	4.7	9.3	14.0	
Calculating Annual Public Safety Costs (Town-wide Services, Police & Public Protection)					
Per acre cost for Town-wide Services, Police & Public Protection	\$398.67	\$398.67	\$398.67	\$398.67	
Total costs of Town-wide Services, Police & Public Protection at phase					
buildout	\$0.00	\$1,860.46	\$3,720.92	\$5,581.38	
Calculating Annual Municipal Services (Police Patrol and Public Pro	otection)				
Per capita cost for Municipal Services, (Police Patrol and Public					
Protection)	\$53.22	\$53.22	\$53.22	\$53.22	
Total costs of Municipal Services, (Police Patrol and Public Protection) at					
phase buildout	\$0.00	\$248.36	\$496.72	\$745.08	

Land Use Designation: Regional Commercial	Buildout Phase			
Total No. Acres: 381	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 3,655,032	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during this phase	10.00	123.67	123.67	123.67
Number of acres developed at phase buildout	10.0	133.7	257.3	381.0
Calculating Annual Public Safety Costs (Town-wide Services, Police	& Public Protection)			
Per acre cost for Town-wide Services, Police & Public Protection	\$398.67	\$398.67	\$398.67	\$398.67
Total costs of Town-wide Services, Police & Public Protection at phase				
buildout	\$3,986.70	\$53,288.89	\$102,591.08	\$151,893.27
Calculating Annual Municipal Services (Police Patrol and Public Pro	otection)			
Per capita cost for Municipal Services, (Police Patrol and Public				
Protection)	\$53.22	\$53.22	\$53.22	\$53.22
Total costs of Municipal Services, (Police Patrol and Public Protection) at				
phase buildout	\$1,130.00	\$7,113.74	\$13,695.28	\$20,276.82

Cost factors based on Riverside County Guide General Fund Net Cost Multipliers for Commercial/Industrial uses, Table A.2.

Land Use Designation: Office Professional	Buildout Phase				
Total No. Acres: 195	Phase I	Phase II	Phase III	Phase IV	
Potential Square Feet at Buildout: 1,867,957	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Land Use Buildout Data					
Number of acres developed during this phase	0.00	65.00	65.00	65.00	
Number of acres developed at phase buildout	-	65.0	130.0	195.0	
Calculating Annual Public Safety Costs (Town-wide Services, Police & Public Protection)					
Per acre cost for Municipal Services, (Police Patrol and Public Protection)	\$398.67	\$398.67	\$398.67	\$398.67	
Total costs of Municipal Services, (Police Patrol and Public Protection) at					
phase buildout	\$0.00	\$25,913.55	\$51,827.10	\$77,740.65	
Calculating Annual Municipal Services (Police Patrol and Public Pro	otection)				
Per acre cost for Municipal Services, Police Patrol and Public Protection	\$53.22	\$53.22	\$53.22	\$53.22	
Total costs of Municipal Services, (Police Patrol and Public Protection) at					
phase buildout	\$0.00	\$3,459.30	\$6,918.60	\$10,377.90	

# Public Safety Costs for Industrial Development

Land Use Designation: Planned Industrial	Buildout Phase			
Total No. Acres: 380	Phase I	Phase II	Phase III	Phase IV
Potential Square Feet at Buildout: 3,646,216	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)
Land Use Buildout Data				
Number of acres developed during this phase	95.0	95.0	95.0	95.0
Number of acres developed at phase buildout	95.0	190.0	285.0	380.0
Calculating Annual Public Safety Costs (Town-wide Services, Police & Public Protection)				
Per capita cost for Municipal Services, (Police Patrol and Public				
Protection)	\$398.67	\$398.67	\$398.67	\$398.67
Total costs of Municipal Services, (Police Patrol and Public Protection) at				
phase buildout	\$37,873.65	\$75,747.30	\$113,620.95	\$151,494.60
Calculating Annual Municipal Services (Police Patrol and Public Pro	otection)			
Per acre cost for Municipal Services, Police Patrol and Public Protection	\$53.22	\$53.22	\$53.22	\$53.22
Total costs of Municipal Services, (Police Patrol and Public Protection) at				
phase buildout	\$10,735.00	\$10,111.80	\$15,167.70	\$20,223.60

Public Safety Costs					
Summary Table					
		Buildout Phase			
	Phase I	Phase II	Phase III	Phase IV	
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Total Annual Public Safety Costs (Town-wide Services, Police & Public Protection)					
Total Annual Cost from Residential Development at phase buildout	\$34,904	\$69,808	\$104,712	\$139,616	
Total Annual Cost from Commercial Development at phase buildout	\$3,987	\$81,063	\$158,139	\$235,215	
Total Annual Cost from Industrial Development at phase buildout	\$37,874	\$75,747	\$113,621	\$151,495	
Total Annual Cost from all development at phase buildout	\$76,764	\$226,618	\$376,472	\$526,326	
Total Annual Public Safety Costs (Town-wide Services, Emergency S	Costs (Town-wide Services, Emergency Services)				
Total Annual Cost from Residential Development at phase buildout	\$394	\$789	\$1,183	\$1,577	
Total Annual Cost from all development at phase buildout	\$394	\$789	\$1,183	\$1,577	
Total Annual Public Safety Costs (Municipal Services, Public Protection)					
Total Annual Cost from Commercial Development at phase buildout	\$1,130	\$10,821	\$21,111	\$31,400	
Total Annual Cost from Industrial Development at phase buildout	\$10,735	\$10,112	\$15,168	\$20,224	
Total annual cost from all development at phase buildout	\$11,865	\$20,933	\$36,278	\$51,623	
Total Annual Cost for Public Safety	\$89,024	\$248,340	\$413,934	\$579,527	

Roadway Maintenance Costs					
	Buildout Phase				
	Phase I	Phase II	Phase III	Phase IV	
	(Yrs 1-5)	(Yrs 6-10)	(Yrs 11-15)	(Yrs 16-20)	
Roadway Data					
Total square miles in Town	78	78	78	78	
Miles of paved public roads in Town	423	423	423	423	
Miles of paved public roads per square mile in Town	5.4	5.4	5.4	5.4	
Total square miles in annexation area	2.0	2.0	2.0	2.0	
Projected paved public road miles in annexation area	10.8	10.8	10.8	10.8	
Projected paved public road miles in annex. area at phase buildout	2.7	5.4	8.1	10.8	
Calculation of Annual Roadway Maintenance Costs					
Total Annual Roadway Maintenance Expenditures <sup>1</sup>	\$2,425,605	\$2,425,605	\$2,425,605	\$2,425,605	
Number of paved road miles in Town	423	423	423	423	
Annual Cost of Roadway Maintenance Per Road Mile	\$5,734	\$5,734	\$5,734	\$5,734	
Annual Cost of Roadway Maintenance at Phase Buildout	\$15,549	\$31,098	\$46,646	\$62,195	

<sup>&</sup>lt;sup>1</sup> Town of Apple Valley Budget.

		Buildou	ıt Phase	
	Phase I (Yrs 1-5)	Phase II (Yrs 6-10)	Phase III (Yrs 11-15)	Phase IV (Yrs 16-20)
ANNUAL REVENUES				
General Fund:				
Property Tax	\$20,052	\$67,174	\$114,296	\$161,41
Property Transfer Tax	\$9,258	\$12,375	\$15,955	\$19,41
Local Sales Tax	\$237,786	\$3,910,740	\$7,583,695	\$11,256,64
Transient Occupancy Tax	\$0	\$207,594	\$207,594	\$207,59
Motor Vehicle In-Lieu	\$152	\$303	\$455	\$60
Restricted Funds:				
Highway Users Gas Tax	\$3,979	\$7,958	\$11,937	\$15,91
Measure I	\$4,161	\$68,438	\$132,715	\$196,99
ANNUAL COSTS				
General Fund:				
General Government Costs				
General Government/Town-wide Services	\$2,990	\$11,202	\$19,414	\$27,62
General Government/Residential	\$37,687	\$75,375	\$113,062	\$150,74
General Government/Parks and Recreation	\$9,237	\$18,474	\$27,712	\$36,94
General Government/Municipal Services	\$223	\$834	\$1,445	\$2,05
General Government/Support Services	\$8,842	\$33,123	\$57,403	\$81,68
Subtotal:	\$58,980	\$139,008	\$219,036	\$299,06
Restricted Funds:	'	•	'	
Public Safety Costs				
Town-wide Public & Police Protection Services	\$76,764	\$226,618	\$376,472	\$526,32
Town-Wide Services, Emergency Services	\$394	\$789	\$1,183	\$1,57
Municipal Services, Public Protection Services	\$11,865	\$20,933	\$36,278	\$51,62
Subtotal:	\$89,024	\$248,340	\$413,934	\$579,52
Roadway Maintenance Costs	\$15,549	\$31,098	\$46,646	\$62,19
SUMMARY OF REVENUES/COSTS:				
Revenues:				
Total Annual General Fund Revenues	\$267,248	\$4,198,187	\$7,921,994	\$11,645,68
Total Annual Restricted Fund Revenues	\$8,140	\$76,396	\$144,652	\$212,90
Subtotal:	\$275,388	\$4,274,583	\$8,066,646	\$11,858,59
Historic Average Interest Rate on 90-Day Treasury Bills	2.43%	2.43%	2.43%	2.43%
Anticipated Interest Earned on Revenues	\$6,692	\$103,872	\$196,019	\$288,16
Total Annual Revenues at Phase Buildout	\$282,080	\$4,378,455	\$8,262,665	\$12,146,75
Costs:			'	
Total Annual General Fund Costs	\$58,980	\$139,008	\$219,036	\$299,06
Total Annual Restricted Fund Costs	\$104,572	\$279,438	\$460,580	\$641,72
Total Annual Costs at Phase Buildout	\$163,552	\$418,445	\$679,616	\$940,78
ANNUAL CASHFLOW AT PHASE BUILDOUT	\$118,528	\$3,960,010	\$7,583,050	\$11,205,97

TOWN DEVELOPER IMPACT FEES REVENUES (One time only)				
General Government Fees	\$55,361	\$108,094	\$108,094	\$108,094
Transportation Impact Fees	\$2,198,027	\$7,032,717	\$7,027,996	\$7,027,996
Law Enforcement Impact Fees	\$210,614	\$562,169	\$562,169	\$562,169
Total Developer Impact Fee Revenues	\$2,464,002	\$7,702,981	\$7,698,259	\$7,698,259

Environmental Response from Tom Dodson and the Town's Addendum to the Environmental Impact Report (SCH#2008091077) for the Apple Valley 2009 General Plan and Annexation 2008-001

# TOM DODSON & ASSOCIATES

2150 N. ARROWHEAD AVENUE SAN BERNARDINO, CA 92405 TEL (909) 882-3612 • FAX (909) 882-7015 E-MAIL tda@tdaenv.com



November 16, 2018

Mr. Samuel Martinez
Executive Officer
Local Agency Formation Commission
1170 West 3<sup>rd</sup> Street, Unit 150
San Bernardino, CA 92415-0490



LAFCO San Bernardino County

Dear Sam:

LAFCO 3229 consists of a request by the Town of Apple Valley (Town) for a Reorganization to include Town of Apple Valley Annexation and Detachments from San Bernardino County Service Area 70. The proposed Reorganization area consists of approximately 1,365 acres. The Reorganization area is generally bounded by a combination of parcel lines and Morro Road (existing Town boundaries) on the north; a combination of Fairfield Avenue and parcel lines on the east; a combination of parcel lines and Johnson Road (existing Town boundaries) on the south; and the centerline of the Interstate 15 Freeway on the west. The whole of the study area is located in the northern Town sphere of influence area. The freeway acreage(about 60 acres) has been added to the Town's application by LAFCO Staff to properly round out the Town's boundary.

The Town of Apple Valley prepared an Addendum to its General Plan Environmental Impact Report (GPEIR) for this project to comply with the California Environmental Quality Act (CEQA) and State CEQA Guidelines. This document concluded that implementation (future development) of the proposed area to be reorganized in a manner consistent with the area General Plan and prezoning designation would not result in any new or greater significant adverse environmental impacts to the environment than originally forecast in the GPEIR with implementation of a number of mitigation measures that all fall within the Town's jurisdiction. Based on the Staff review, the disparity between the Town's application acreage and the Reorganization acreage is the inclusion of adjacent public rights-of-way (primarily freeway). After reviewing this disparity and utilizing the CEQA requirements for subsequent review (Section 15162 of the State CEQA Guidelines), I recommend that the Commission rely upon the Town's Addendum as adequate for LAFCO's Responsible Agency CEQA environmental This is because the addition of the adjacent public rights-of-way to the Reorganization, which already exist, will not result in any additional adverse impact on the physical environment. Therefore, I am recommending that the Commission consider the adopted the Town Addendum as a CEQA Responsible Agency as the appropriate CEQA environmental determination for LAFCO 3229.

Based on a review of LAFCO 3229 and the pertinent sections of CEQA and the State CEQA Guidelines, I believe it is appropriate for the Commission's CEQA environmental determination to cite the Town's Addendum as adequate documentation in accordance with the Commission's CEQA Responsible Agency status. The CEQA review process was carried out in early 2018. Based on a field review of the Reorganization and review of the environmental issues in the Town's document, no substantial changes in circumstances have occurred since the GPEIR adoption that would require additional environmental documentation or review. Under this situation, I recommend that the Commission take the following steps if it chooses to approve LAFCO 3229, acting as a CEQA Responsible Agency:

- 1. Indicate that the Commission staff and environmental consultant have independently reviewed the Town's GPEIR and Addendum and found them adequate for the Town's proposed Reorganization.
- 2. The Commission needs to indicate that it has considered the GPEIR and Addendum and environmental effects, as outlined in the Addendum, prior to reaching a decision on the project and finds the information substantiating the Addendum adequate for approval of the Reorganization.
- 3. The Commission should indicate that it does not intend to adopt alternatives or mitigation measures for this project. Mitigation measures were required for this project and they will remain the responsibility of the Town to implement.
- 4. File a Notice of Determination with the County Clerk of the Board as a CEQA Responsible Agency.

If you have any questions regarding these recommendations, please feel free to give me a call.

Sincerely,

Tom Dodson President

TD/cmc

# NOTICE OF DETERMINATION

County of San Bernardino, 222 W. Hospitality Lane, 1st floor

TO: X County Clerk

Sa	n Bernardino, CA. 92415-00	222 Contact: Orlando A Phone: 760-240-70		8-345
14	ffice of Planning and Resear 400 Tenth Street acramento, CA 95814			
30	Clamemo, CA 93014			
Subject: Resources		nination in compliance with Section 2		
	inghouse Number	Contact Person	Telephone Number	
•	ed to Clearinghouse) 08091077	Orlando Acevedo, Assistant Director Economic Development & Housing	700-240-7000 ES & S	· · · · · · · · · · · · · · · · · · ·
Project Ti	tle: Annexation 20	8-001		I !
consists of		ential to result in 5,657,059 square feet	veloped lands. The 2018-001 Annexation of commercial space, 3,646,216 square fe	
Wells Roa and 18, To	d, north of Johnson Road, ownship 6 North, Range 3	east of Interstate 15 and south of Mor	ally west of Dale Evans Parkway and Store Road within a portion of Sections 5, ownship 6 North, Range 4 West of the Sa	6, 7, 8,
Applicant	: Town of Apple Valley			
following of 1. Th 2X20	determinations: e project X will will r An Addendum to the G	le Valley approved the above described of have a significant effect on the environment Plan Amendment No. 2008-001, ct Report was prepared and certified for	onment.	ŗ
4. A	A Mitigated Negative itigation measures_xx_wer statement of Overriding Cor	n was prepared for this project pursuan Declaration was prepared for this project pursuant made a condition of the siderations X was was not adopted the made pursuant to the provisions of Cl	ct pursuant to the provisions of CEQA. approval of the project. d for this project.	
	He	Assistant Director	May 14, 2018	
Signature		Title	Date	
DECLARA		NAL EIR (WITH COMMENTS AND PROJECT APPROVAL IS AVAILAB	RESPONSES) OR NEGATIVE LE TO THE GENERAL PUBLIC AND	
managed stance as a complete and	pple Valley Community De	velopment Department		
	e Evans Parkway Ley, CA 92307	Date	Received for Filing at OPR	

FROM: Town of Apple Valley

14955 Dale Evans Parkway Posted On: 05

Apple Valley, CA 92307 Removed On:

DATE FILED & POSTED

# Addendum to the Environmental Impact Report for the Apple Valley 2009 General Plan and Annexation 2008-001

Town of Apple Valley Project No. 2018-001

State Clearinghouse No. 2008091077



#### Prepared for:

Town of Apple Valley 14955 Dale Evans Parkway Apple Valley, CA 92307

#### Prepared by:



Terra Nova Planning & Research, Inc.<sup>®</sup> 42635 Melanie Place, Suite #101 Palm Desert, California 92211

**March 2018** 

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#### I. INTRODUCTION AND PROJECT BACKGROUND

#### A. Summary

This document is an Addendum to the Town of Apple Valley's 2009 General Plan Environmental Impact Report (EIR). The Addendum has been prepared to evaluate the potential environmental impacts of an amendment to Annexation 2008-001, also known as the Golden Triangle, for lands currently under the jurisdiction of San Bernardino County. Annexation 2008-001 was undertaken for an area larger than the currently proposed Annexation 2018-001 (please see Section I.C., Project History and Current Proposal).

In this document, Section I provides the detailed description of the Town of Apple Valley's planning procedures and environmental review process under the California Environmental Quality Act (CEQA). Section II describes proposed amendments to Annexation 2008-001, referred to herein as the 2018-001 Annexation. Section III describes the potential environmental impacts of the proposed 2018-001 Annexation in the context of the 2009 General Plan EIR.

# **B.** Project Location

The 2018-001 Annexation consists of 1,304± acres located immediately west of the current Town limits, along U.S. Interstate 15 (I-15). The annexation area is bounded by the Town's corporate limits on the south, east and north. It is within the Town's Sphere of Influence, as defined by the Local Agency Formation Commission (LAFCO). Regional location and project vicinity maps are provided in Exhibits 1 through 3.

#### C. Project History and Current Proposal

The Apple Valley 2009 General Plan EIR included analysis of Annexation 2008-001, which was comprised of approximately 2,774.6 acres of land currently under the jurisdiction of San Bernardino County, and located immediately west of the current Town limits, along U.S. Interstate 15 (I-15) (Exhibit 4). The EIR, including Annexation 2008-001, was certified on April 27, 2010.

In the 2009 General Plan EIR, the proposed annexation was fully analyzed as Annexation 2008-001 which had the potential to result in as much as 7,135,369 square feet of commercial space, 7,782,275 square feet of industrial space, and a total of 4,236 residential units at build out under the 2009 General Plan EIR.

In 2017, the Town proposed revisions to the annexation boundaries resulting in a reduction in total acreage, buildout square footage, and units. The 2018-001 Annexation is wholly comprised of undeveloped lands. The 2018-001 Annexation area consists of 1,304 acres and has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out.

The remaining 1,470± acres of Annexation 2008-001 area will remain part of the County, and are referred as "Remaining County Lands" in this document. The remaining County lands have the potential to result in 75,899 square feet of commercial space and a total of 218 residential units at build out.

This Addendum evaluates whether the proposed modifications to Annexation 2008-001 (which would substantially *reduce* the acreage proposed for annexation) would result in new or substantially more significant environmental impacts compared to the impacts described in the certified EIR.

### D. Purpose of an EIR Addendum

In accordance with CEQA Guidelines Section 15164, a Lead Agency is required to prepare an EIR Addendum to a previously certified EIR if some changes or additions to a project are necessary, but the proposed project modifications do not require preparation of a subsequent EIR, as provided in Guidelines Section 15162. In addition, the proposed modifications cannot result in new or substantially more significant environmental impacts compared with the impacts disclosed in the previously certified EIR.

CEQA Guidelines Section 15162 states that a subsequent EIR would be required for a project if any of the following conditions exist:

- 1. Substantial changes to the project require major revisions to the previously certified EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified effects;
- 2. Substantial changes occur with respect to the circumstances under which the project is undertaken that require major revisions to the previously certified EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified effects; or
- 3. The availability of new information of substantial importance, which was not known or could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified, shows that the project will have one or more significant effects not discussed in the previous EIR, significant effects previously examined will be substantially more severe than shown in the previous EIR, or mitigation measures or alternatives that were previously found not to be feasible or that are considerably different from those analyzed in the previously certified EIR would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt the mitigation measure or alternative.

Based on the evaluation of information provided in this EIR Addendum, no new significant impacts would occur as a result of the proposed 2018-001 Annexation, nor would there be any substantial increase in the severity of any previously identified adverse environmental impacts.

Therefore, none of the conditions described in Section 15162 of the CEQA Guidelines has occurred. For this reason, an EIR addendum is the appropriate document to comply with CEQA requirements for the proposed project.



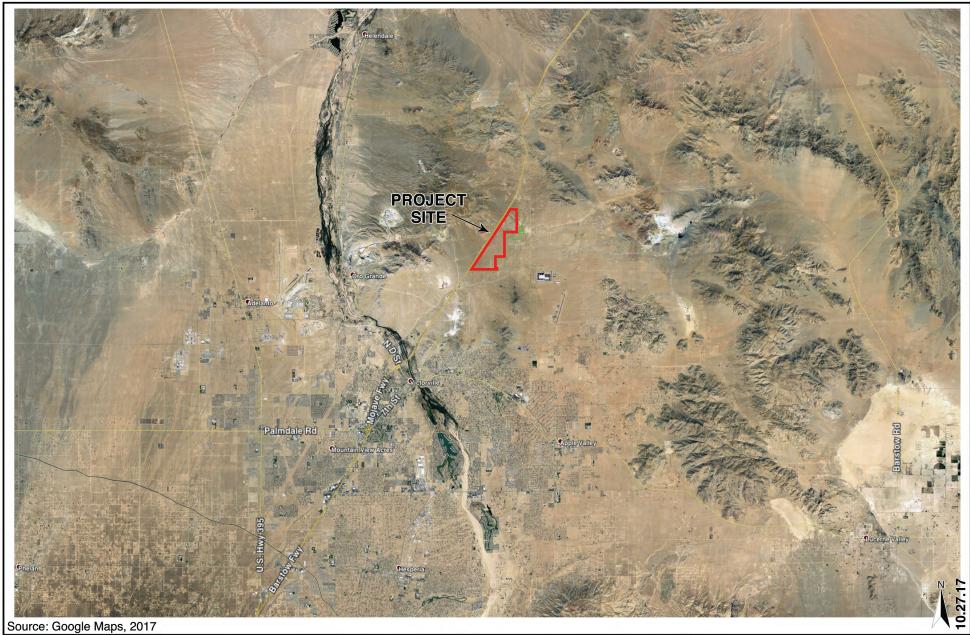


# **SAN BERNARDINO COUNTY**





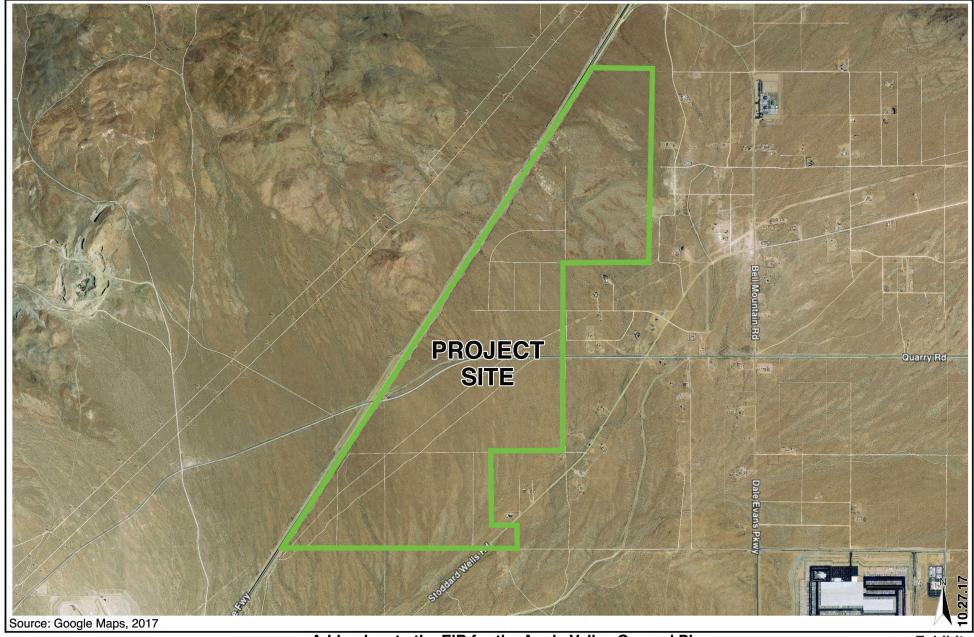
Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Regional Location Map Apple Valley, California **Exhibit** 





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Vicinity Map Apple Valley, California

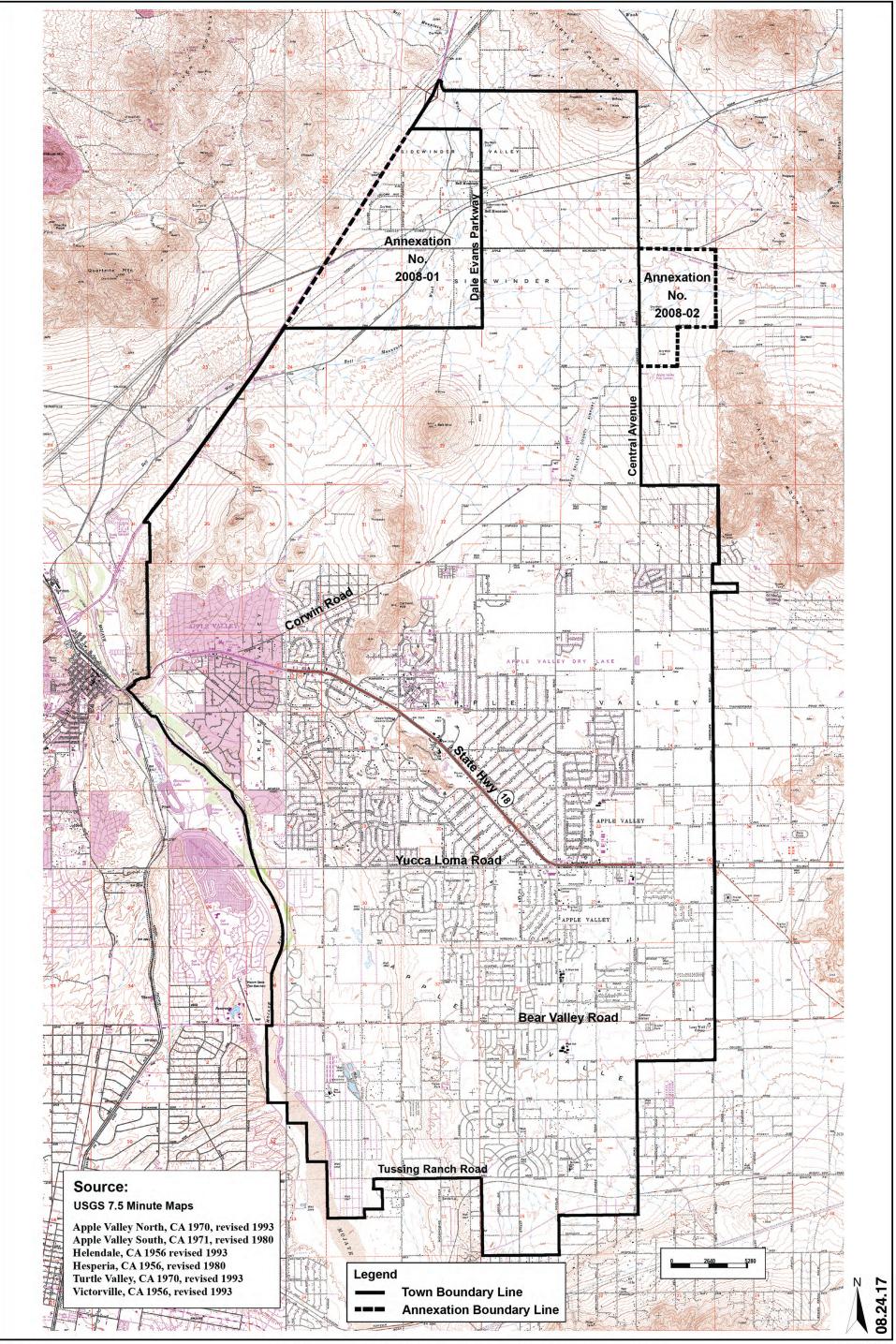
**Exhibit** 





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Project Location Map Apple Valley, California

**Exhibit** 





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Annexation 2008-001 Apple Valley, California

#### II. PROPOSED 2018-001 ANNEXATION AMENDMENTS

#### **A.** 2018-001 Annexation

The 2018-001 Annexation proposes amendments to Annexation 2008-001 that will result in a reduction of overall total acreage and land use buildout quantities. The 2018-001 Annexation has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out. The proposed land uses are generally consistent with those proposed in Annexation 2008-001; however, there will be a decrease in overall residential, commercial, and industrial units and square footage. Those amendments and their associated potential environmental impacts are the subject of this addendum.

The following table provides a summary of the proposed amendments to Annexation 2008-001 and the overall change in land use buildout quantities.

Table 1
Buildout Land Use Summary
Annexation 2008-001 vs 2018-001 Annexation

Land Use Designation	Annexation 2008-001	2018-001 Annexation Amendments	Change (+/-)
Estate Residential	722 Units	247 Units	-475 Units
Medium Density Residential	2,659 Units	0 Units	-2,659 Units
Mixed Use Residential	845 Units	0 Units	-845 Units
Mixed Use Commercial	636,612 SF	0 SF	-636,612 SF
General Commercial	503,617 SF	134,069 SF	-369,548 SF
Regional Commercial	4,240,502 SF	3,655,032 SF	-585,470 SF
Office Professional	1,754,639 SF	1,867,957 SF	+ 113,318 SF <sup>1</sup>
Planned Industrial	7,782,275 SF	3,646,216 SF	-4,136,059 SF
Total Acreage	2,774 AC	1,304 AC	-1,470 AC

<sup>1</sup>Increase in square footage attributable to refinements in GIS mapping accuracy between 2008 and 2017.

The following tables provide additional details, including a summary of acreages and land uses for Annexation 2008-001 (Table 2) and the proposed 2018-001 Annexation (Table 3). Exhibit 5 compares the boundaries of Annexation 2008-001 and the 2018-001 Annexation area. Exhibit 6 shows the adopted 2009 General Plan land use map, and Exhibit 7 shows the proposed 2018-001 Annexation area land use map.

Table 2
Annexation 2008-001
Vacant and Developed Acreage by Land Use Designation

I and III a Dani and dian	Developed	Vacant	Total	Total
Land Use Designation	Acres	Acres	Acres	Units
<b>Residential Designations</b>				
Estate Residential	55.7	722.3	778.0	722
Medium Density Residential	41.4	177.3	218.7	2,659
Mixed Use	0.0	94.8	94.9	854
Residential Subtotal			1,091.6	4,236
<b>Commercial Designations</b>				<b>Total Square Feet</b>
Mixed Use	0.0	94.9	94.9	636,612
General Commercial	11.7	40.8	52.6	503,617
Regional Commercial	7.2	435.3	442.5	4,240,502
Office Professional	0.0	183.1	183.1	1,754,639
Commercial Subtotal			773.0	7,135,369
<b>Industrial Designations</b>				<b>Total Square Feet</b>
Planned Industrial	49.72	762.4	812.1	7,782,275
Industrial Subtotal				7,782,275
Other Designations				
Street Rights-of-Way	42.8	150.1	192.9	
Other Subtotal				
<b>Grand Total</b>	208.7	2,565.9	2,774.6	

Source: "Apple Valley General Plan Environmental Impact Report (Table III-42)", adopted August 11, 2009.

Table 3
2018-001 Annexation
Vacant and Developed Acreage by Land Use Designation

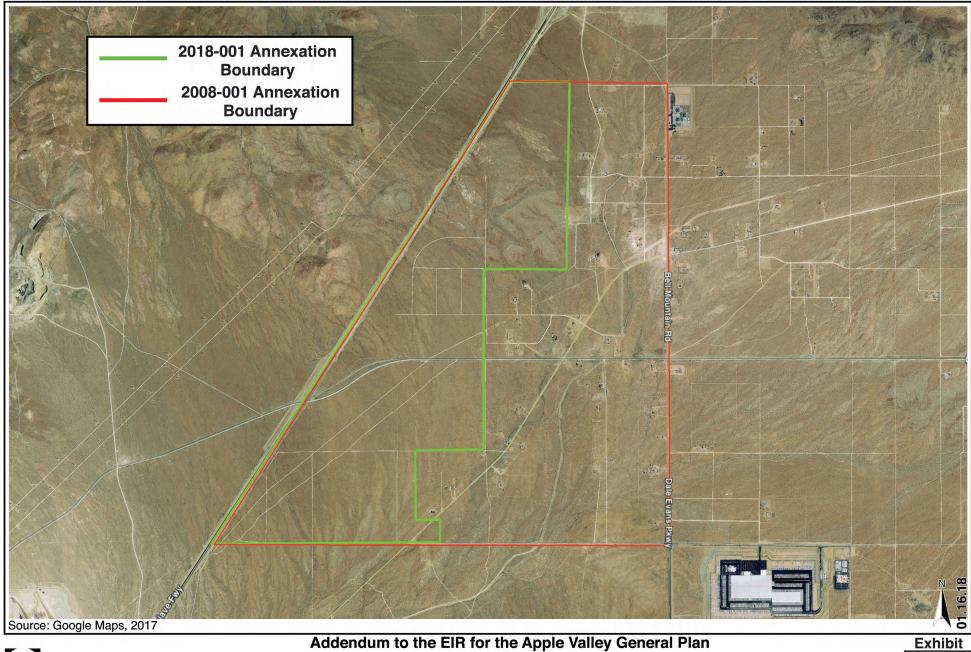
Land Use Designation	Developed	Vacant	Total	<b>Total Potential</b>
Land Osc Designation	Acres	Acres	Acres	Units
<b>Residential Designations</b>				
Estate Residential	0	247	247	247
Medium Density				
Residential	0	0	0	0
Mixed Use	0	0	0	0
Residential Subtotal			247	247
				<b>Total Potential</b>
<b>Commercial Designations</b>				Square Feet
Mixed Use	0	0	0	0
General Commercial	0	14	14	134,069
Regional Commercial	0	381	381	3,655,032
Office Professional	0	195	195	1,867,957
Commercial Sub-total			590	5,657,059
				<b>Total Potential</b>
<b>Industrial Designations</b>				<b>Square Feet</b>
Planned Industrial	0	380	380	3,646,216
Industrial Sub-total			380	3,646,216
Other Designations				
Street Rights-of-Way	0	87	87	
Other Sub-total				
Grand Total	0		1,304	

For purposes of this analysis, it has been assumed that the 1,470± acres previously included in Annexation 2008-001 and not a part of the 2018-001 Annexation will develop under their current County land use designations (Table 4). The majority of the land remaining under County jurisdiction is designated Rural Living, and would allow up to 218 single-family residential units (Table 4). A Commercial Retail designated parcel located at the northeast corner of Annexation 2008-001 would have the potential of generating up to 75,899 square feet of commercial space. Throughout this document, these land uses are considered in the overall analysis of the impacts of the 2018-001 Annexation, in order to provide a consistent "apples to apples" representation of the impacts of the proposed annexation at build out.

Table 4
Remaining County Lands

	_	-	
Vacant and Develope	d Acreage	by Land	<b>Use Designation</b>

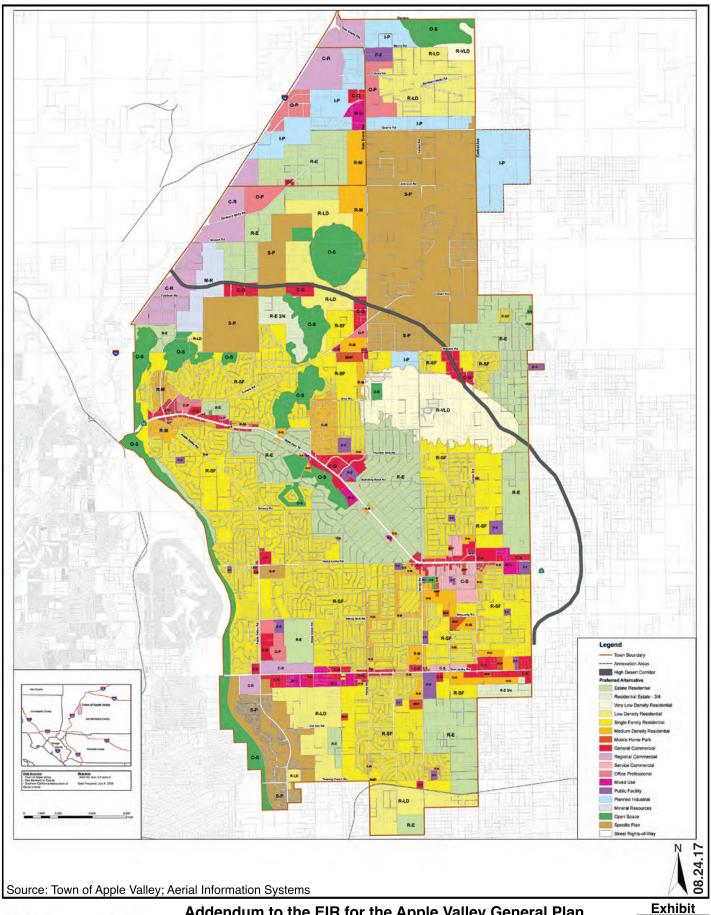
Land Use Designation	Developed Acres	Vacant Acres	Total Acres	Total Potential Units
<b>Residential Designations</b>				
Rural Living -5 (RL-5)	43.1	364.05	407.1	91
Rural Living -10 (RL-10)	112.3	818.44	930.7	127
Mixed Use	0	0	0	0
Residential Subtotal			1,337.8	218
Commercial Designations				Total Potential Square Feet
General Commercial	0	7.92	7.92	75,899
Commercial Sub-total			7.92	75,899
Industrial Designations				Total Potential Square Feet
<b>Industrial Sub-total</b>	0	0	0	0
Other Designations				
Street Rights-of-Way	0	124.8	124.8	0
Other Sub-total	·			
Grand Total	155.3	1,315.2	1,470.5	0





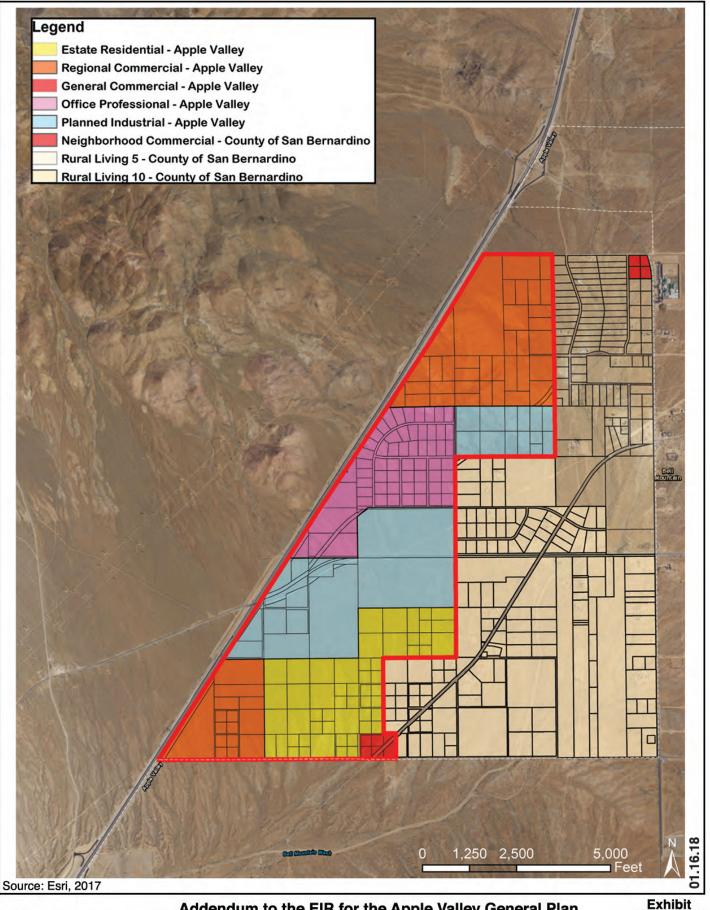
Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Annexation 2018-001 and Annexation 2008-001 Boundary Map **Apple Valley, California** 

**Exhibit** 





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 General Plan Land Use Map Apple Valley, California





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Annexation 2018-001 Land Use Map Apple Valley, California

#### **B.** Current Land Use Designations

The proposed annexation area is currently governed by San Bernardino County General Plan and its associated Land Use Map. There were approximately 2,774±-acres within Annexation 2008-001 under the General Plan (County). Of these, approximately 2,566 acres (92%) were vacant and undeveloped desert lands. The remaining approximately 8% were sparsely developed with single-family residences and paved and unpaved roadways. Lands in this annexation area were designated and zoned for Rural Living, Rural Living-5 (minimum 5-acre lots) and Neighborhood Commercial under the County General Plan.

Table 5
Statistical Summary of Land Uses
San Bernardino County Land Use – Annexation 2008-001

Sun Bernaramo County Lana CSC Trimeration 2000 001						
Land Use Designation	Developed	Vacant	Total			
Residential Designations	Residential Designations					<b>Total Units</b>
Rural Living	151.6	1,982.4	2,134.0		1,982	1,982
Rural Living, 5 AC.	14.2	425.5	439.7		85	85
			Total	-	2,067	2,067
<b>Commercial Designations</b>				<b>Existing SF</b>	Potential SF	Total SF
Neighborhood Commercial		7.9	7.9	-	53,192	53,192
Other Designations						
Street Rights-of-Way	42.8	150.1	192.9			
Grand Total	208.7	2,565.9	2,774.6			
Source: "Apple Valley General Plan Environmental Impact Report (Table III-37)", adopted August 11, 2009.						

The land use plan proposed in the EIR for Annexation 2008-001 included a mix of residential, commercial, and industrial land uses. At build out, the annexation area would have included 4,236 residential units; 7,135,369 square feet of commercial development; and 7,782,275 square feet of industrial development. Table 2 shows the build out summary for the Annexation 2008-001.

#### III. IMPACT ANALYSIS

#### A. Aesthetics and Visual Resources

## Summary of Findings in the EIR

The EIR described that the Town of Apple Valley and Annexation 2008-001 are located primarily on alluvial slopes of the Mojave River floodplain, at the southern edge of the Mojave Desert. Elevations in the Town range from approximately 2,800 feet above sea level near the Mojave River, to approximately 3,200 feet above sea level at the northeast corner of Town. The topography gradually inclines towards the Juniper Flats foothills of the San Bernardino Mountains to the south, as well as to the scattered knolls and mountains to the north and east of the Town. The Turtle and Black Mountains are located to the north of the General Plan planning area, Fairview Mountain to the northeast, and the Granite Mountains to the southeast. From these elevated topographical features, panoramic vistas exist across Apple Valley.

Uninterrupted expanses of 'wide skies' and panoramic vistas of distant mountains are natural visual resources for the region. The low-lying landscape surrounding the Town allows unobstructed, distant views in all directions, and these create a prevailing sense of openness and spaciousness.

The EIR established that the visual character of most parts of the General Plan planning area has been impacted to some extent by residential, commercial, and industrial development; however, many acres of undeveloped desert lands remain.

#### Annexation 2008-001

The EIR determined that the proposed land use plan for Annexation 2008-001 was designed to integrate into surrounding lands within the Town's urban environment. However, build out of the Annexation Area would be expected to have some impact on visual and aesthetic resources, particularly because the area consisted of vacant desert land. Although these potential impacts were not expected to affect the visual character of the annexation area in the immediate future, they were expected to accumulate over time as new development takes place.

The EIR concluded that the conversion of rural land uses to residential, commercial, and industrial uses in the annexation area would transform the open, semi-rural character of the area to that of a developed urban community. Existing viewsheds would be partially obstructed by buildings and other structures, and the present sense of open space would be diminished. Other elements of the built environment, including signage, utility infrastructure, and paved surfaces would also alter the existing visual character.

The EIR stated that the policies, programs, and regulatory constraints applicable to all development in Town would be applied to Annexation 2008-001, thereby limiting building coverage and height to one and two-story structures which would have limited impacts on viewsheds in the proposed annexation area.

The EIR determined that land that was previously undeveloped has been designated for residential, commercial and industrial uses. The EIR analyzed the potential impacts associated with light and glare for these lands, and found that future development would generate lighting levels consistent with that of the Town's urban development, and would be controlled by the Town's lighting standards, which include shielding and limitation of light spillage. All future development proposals in Annexation 2008-001 would be subject to review by Town staff to determine compliance with General Plan dark sky and lighting policies, as well as Development Code standards and requirements designed to control light spillage and preserve night skies. In addition, the Town has established development performance standards for exterior lighting in Chapter 9.70.020 of the Town's Municipal Code, and these would be enforced to effectively reduce lighting and glare impacts to less than significant levels.

The EIR determined that the proposed Annexation 2008-001 would have a less than significant impact on scenic vistas because of the development policies and design performance standards included in the General Plan and Town Municipal Code. Nonetheless, several mitigation measures were set forth in the EIR to ensure impacts would be reduced to less than significant levels.

#### Analysis of the Proposed 2018-001 Annexation

As was true when the General Plan EIR was certified, the Annexation 2008-001 area is currently rural and largely vacant but contains scattered low-density residences. The proposed 2018-001 Annexation consists of the western portion of Annexation 2008-001. In order to analyze the existing visual character and quality of the proposed annexation area and its surroundings, four viewpoints were selected to identify potential aesthetic resources and determine if the proposed 2018-001 Annexation would result in any new significant impacts that were not identified in the EIR (Exhibits 8, 9, 10, 11, and 12).

#### Scenic Vistas and Scenic Resources

The annexation area is located in the eastern portion of the Victor Valley, which lies at the boundary of two very distinct geomorphic provinces (Transverse Ranges Province and Mojave Desert Province). The Transverse Ranges are a complex series of east-west trending mountain ranges and valleys. The Mojave Desert is a broad interior region of isolated mountain ranges separated by expanses of desert plains. Sometimes referred to as the high desert, elevations in the Mojave Desert generally range between 3,000 to 6,000 feet.

The annexation area is in a low-lying and relatively flat desert valley bounded by the Turtle Mountains on the north, Silver Mountains on the west and northwest, Fairview Mountains and Granite Mountains on the east, and the Ord Mountains on the south. These mountains have a significant rise over the valley floor.

Geological Gems Of California State Parks | Geogem Note 39 Transverse Ranges Geomorphic Province; GEOLOGICAL GEMS OF CALIFORNIA STATE PARKS | GEOGEM NOTE 43 Mojave Desert Geomorphic Province, Accessed August 2017

 $ftp://ftp.consrv.ca.gov/pub/dmg/pubs/sr/SR\_230/Notes\_LR/CGS\_SR230\_TransverseRanges\_GeomorphProvinces\_lr.pdf, Accessed August 2017.$ 

<sup>&</sup>lt;sup>2</sup> Ibid.

The annexation area generally has unobstructed, distant views of the aforementioned mountains (Exhibit 3). The area is still generally rural and undeveloped. Middle and foreground views include scattered low-density residential development, paved and unpaved roads, and vacant land. Interstate-15, which is designated as an eligible California Scenic Highway<sup>3</sup>, is visible along the western boundary of the annexation area, and views of mountain slopes and alluvial fans are visible to the west of the highway.

The proposed annexation area is visible from local roadways (i.e. Morro Road, Colusa Road, Sombre Road, Stoddard Wells Road, Quarry Road, and Johnson Road) and Interstate 15 (Exhibits 8, 9, and 12). The proposed annexation would not result in a substantial adverse visual effect for passing motorists on any roads in the project vicinity because potential future development would be visually consistent with other development in the Town of Apple Valley and vicinity, and would be subject to the same development standards and height restrictions as those analyzed in the EIR.

The 2018-001 Annexation would allow for a similar mix of land uses, patterns of development, and range of building heights in the project area, with comparable landscaping, architectural features, and other amenities and improvements to those previously proposed under Annexation 2008-001. The structural massing of building features would not notably vary from that of the previously proposed annexation. Thus, the potential for obstruction of scenic vistas or scenic resources from viewpoints in and around the project area would not be increased under the 2018-001 Annexation. The 2018-001 Annexation area contains approximately 53% fewer acres than Annexation 2008-001 and would result in a 94% reduction in total residential units, 20% reduction in total commercial square footage, and 53% reduction in total industrial square footage compared to Annexation 2008-001.

The 2018-001 Annexation would not create any new impacts associated with views, and any impacts would be less than those identified in the EIR due to the annexation's reduced acreage. Thus, potential impacts to scenic vistas and views associated with the 2018-001 Annexation would be less than significant. Although no mitigation is required, implementation of those mitigation measures provided in the EIR would further reduce impacts in and around the project area.

#### Light and Glare

The 2018-001 Annexation area is currently vacant and there is no lighting onsite. Buildout of the 2018-001 Annexation area can be expected to generate increased levels of light and glare from interior and exterior building lighting, safety and security lighting, landscape lighting, and vehicles accessing the area. The types and sources of lighting under the 2018-001 Annexation would be the same as those anticipated under Annexation 2008-001; however, the number of light sources would be substantially reduced due to decreases in the annexation's total acreage and potential building units and square footage.

<sup>&</sup>lt;sup>3</sup> California Scenic Highway Mapping System; http://www.dot.ca.gov/hq/LandArch/16\_livability/scenic\_highways/, Accessed August 2017.

Under the 2018-001 Annexation, lighting and glare levels are not expected to exceed typical levels for an urban environment, and will be regulated by the Town's lighting standards. Impacts associated with light and glare will be less than significant, consistent with the conclusion of the EIR.

#### Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Currently, the remaining County land is sparsely developed and generating limited light and glare east of the proposed 2018-001 Annexation area. The buildout of these County lands would result up to 218 single-family residential units and 75,899 square feet of commercial space and increased levels of light and glare from interior and exterior building lighting, safety and security lighting, landscape lighting, and vehicles accessing the area. Future development of the remaining County lands would be required to comply with all applicable rules and regulations, including the County's General Plan policies and land use lighting standards.

Lighting and glare levels are not expected to exceed typical levels for suburban environments, and will be regulated by the County's lighting standards. Therefore, overall build out of the 2018-001 Annexation plus buildout of the remaining County lands will result in similar impacts as Annexation 2008-001.

# Summary of Impacts

Like Annexation 2008-001, the 2018-001 Annexation will result in the conversion of a rural, largely vacant area to residential, commercial, and industrial uses, and change the existing visual character of the site to an urban environment consistent with that already existing in the Town of Apple Valley. Land use types, building heights, and general development patterns under the 2018-001 Annexation would be similar to those proposed under Annexation 2008-001. However, given that the 2018-001 Annexation area covers 1,470 (53%) fewer acres and would accommodate 94% less units for residential development, the impacts to aesthetics and visual resources will be less than those disclosed in the EIR. As with the EIR, impacts will be less than significant. Implementation of the mitigation measures provided in the EIR will assure that potential impacts are further reduced.





Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 View Point Key Map Apple Valley, California

Exhibit











Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Views to North, South, East, and West from View Point A Apple Valley, California Exhibit











Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Views to North, South, East, and West from View Point B Apple Valley, California Exhibit











Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Views to North, South, East, and West from View Point C Apple Valley, California Exhibit











Addendum to the EIR for the Apple Valley General Plan and Annexations 2008-001 & -002 Views to North, South, East, and West from View Point D Apple Valley, California Exhibit

# **B.** Agricultural Resources

## Summary of Findings in the EIR

Historically, agricultural activities in the Town of Apple Valley have ranged from ranching to crop farming. However, in the last 50 years, agricultural activities have diminished considerably, due in part to a limited supply of irrigation water and the pressures of urbanization in the community.

The EIR determined that four areas of land in Apple Valley are designated as Farmland of Statewide Importance, according to the California Department of Conservation. Two areas are located north of Yucca Loma Road and west of Apple Valley Road. Two areas are located south of Yucca Loma Road; one immediately east of Apple Valley Road, and one south of Bear Valley Road, in the Deep Creek area. Altogether, these lands represent approximately 130 acres.

There is one Williamson Act contract in effect in the Town, on the south side of Chickasaw Lane, east of Camber Lane, and consisting of 1.8 acres. The parcel is owned by Liberty Utilities (previously Apple Valley Ranchos Water Company (AVR).

At the time the EIR was prepared, several approved development projects were located on lands identified as farmland by the State Department of Conservation. They included approved Tentative Tract Maps for 37.5 acres at the southeast corner of Camber Lane and Chickasaw Lane; 42.3 acres at the southwest corner of Choco Road and Yucca Loma Road; and 37 acres at the southeast corner of Wren Road and Mockingbird Road. The EIR stated that these approvals affect almost all of the lands designated by the State as farmland, and the approvals occurred prior to the 2009 General Plan update on lands designated for residential land uses in the General Plan.

#### Annexation 2008-001

In the EIR, Annexation 2008-001 was considered as part of the General Plan area for purposes of analyzing the potential impacts to agricultural resources. The EIR determined that the General Plan, including Annexation 2008-001, had the potential to convert the lands designated by the State as Farmland of Statewide Importance to residential development. About 15 acres were committed to development under the existing General Plan, although development had not occurred. These lands were on relatively small parcels of 40 acres or less, and not conducive to the long-term production of agriculture. None of these lands occurred within the boundaries of Annexation 2008-001.

The EIR determined that the General Plan allows ranching and agricultural activities in the Very Low Density Residential, Low Density Residential, Estate Residential, and Estate Residential <sup>3</sup>/<sub>4</sub> land use designations. It was anticipated that, at buildout, about 100 acres of land designated by the State as Farmland of Statewide Importance would be lost to development. None of the parcels represented viable long-term agricultural production lands for Apple Valley or the region. The more likely agricultural, ranching, and equestrian areas in Town were located around

the most southerly designated Farmland of Statewide Importance, in the Deep Creek area. These lands were designated to allow agricultural and ranching activities, and were able to support such activities through the policies of the General Plan.

According to EIR Table III-42, 778 acres of land were designated as Estate Residential in the Annexation 2008-001 area; they were generally located in the southern portion of the annexation area. Ranching and agricultural activities would have been allowed on these lands.

Overall, the EIR determined that the impacts associated with agricultural activities were less than significant. In order to preserve agricultural and equestrian activities in Town, two mitigation measures were included in the EIR.

#### Analysis of the Proposed 2018-001 Annexation

According to the California Department of Conservation agricultural maps, there are no designated agricultural resources within the 2018-001 Annexation area. Therefore, development facilitated by the proposed annexation would not result in the conversion of, or adverse impacts to, designated agricultural lands.

The Land Use Element of the General Plan allows ranching and agricultural activities in the Estate Residential land use designation. Therefore, there would be the potential for ranching and agricultural activities to occur on 247 acres of Estate Residential lands in the proposed annexation area. This represents 531 fewer acres of Estate Residential than proposed under Annexation 2008-001, but is consistent with the overall reduction in acreage of the entire annexation area.

No forest land exists in the vicinity of the 2018-001 Annexation that could be converted to non-forest uses, and no lands in the annexation area are designated for forest land production. Therefore, the 2018-001 Annexation would not involve changes to the existing environment, which, due to its location or nature, could result in conversion of forest land to non-forest uses. Implementation of the 2018-001 Annexation would not result in any new impacts or increase the severity of a previously identified significant impact analyzed in the EIR.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Currently, the remaining County land is sparsely developed and would result in up to 218 single-family residential units and 75,899 square feet of commercial space at build out. The remaining County land is not designated for agricultural activities on California Department of Conservation agricultural maps. Limited agricultural uses are allowed within the Rural Residential (RR) land use designation.<sup>4</sup> Therefore, there would be less than significant impact to agricultural resources associated with County land buildout.

<sup>&</sup>lt;sup>4</sup> Table LU-4 Land Use Designations Summary; http://planning.rctlma.org/ZoningInformation/GeneralPlan/LandUseDesignations.aspx; Accessed November 2017.

#### **Summary of Impacts**

Overall, build out of the 2018-001 Annexation, plus buildout of the remaining County lands, will result in similar impacts as disclosed in the EIR for Annexation 2008-001. The 2018-001 Annexation plus the remaining County lands would not create any new impacts associated with agricultural resources. As was the case for Annexation 2008-001, ranching and agricultural activities would be allowed on Estate Residential lands. The proposed annexation will not result in any new significant environmental effects, or substantial increases in the severity of previously identified significant effects. Impacts will be less than significant. The mitigation measures included in the EIR, which would be applied to the 2018-001 Annexation area, will assure that agricultural activities in the annexation area are further protected.

#### C. Air Quality

#### Summary of Findings in the EIR

The Town of Apple Valley and the previous and current annexation areas lie within the Mojave Desert Air Basin (MDAB). Local development and population growth, traffic, construction activities, and various site disturbances in the Town contribute to air quality emissions. Although air pollution is emitted from various sources locally, some of the degradation of air quality can be attributed to sources outside of the MDAB, including air basins to the west in Los Angeles County, to the southwest in Riverside County, and regionally in San Bernardino County.

The Mojave Desert Air Basin exceeds state and federal standards for fugitive dust (PM<sub>10</sub> and PM<sub>2.5</sub>) and ozone. State and federal standards for carbon monoxide, nitrogen oxides, sulfur dioxide, and lead are in attainment within the Town and the MDAB.

#### Ozone

The MDAB, which has a history of exceeding state and federal ozone standards, was designated as a "moderate" ozone non-attainment area under the federal Clean Air Act during the preparation of the General Plan EIR. The 2008 MDAQMD Ozone Attainment Plan was intended to assure that the Basin achieved attainment of the federal 8-hour NAAQS for ozone by 2021.

#### *PM*<sub>10</sub> *Emissions*

The region has a history of elevated  $PM_{10}$  emissions, which are the result of both human activities, such as vehicle use and construction activity, and natural occurrences, such as windstorms. The Town relies on applicable state code and AQMD Rules, including rules intended to control fugitive dust, for authority to enforce compliance as needed, since it does not have its own fugitive dust ordinance. The Town's Municipal Code does include provisions for Off-Road dust generation by prohibiting nuisance dust or dirt emissions (Chapter 11.30, Section 020).

#### PM<sub>2.5</sub> Emissions

The MDAB and the Town were classified as being in non-attainment for PM<sub>2.5</sub>, based on the 2007 State Area Designations. Although the region was classified as being in non-attainment for the state standard, the region was classified as being in attainment/unclassifiable for the national standard, based on 2006 national area designations, despite the air quality monitoring data from the Victorville station that shows zero (0) exceedances for either the state or federal 24-hour standard from 2000 through 2007.

#### Climate Change and Greenhouse Gases

Air quality is a concern due to human health issues, and because air pollutants are thought to be contributing to global warming and climate change. Air pollution is defined as a chemical, physical, or biological process that modifies the characteristics of the atmosphere. Some air polluting agents are also greenhouse gases (GHG), such as carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and fluorinated gases (hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride), which are released into the atmosphere through natural processes and human activities. Carbon dioxide is the primary greenhouse gas of concern due to current and projected levels, and the highly correlated temperature regression curve; temperatures rise as carbon dioxide levels rise.

California was the first state to establish regulations that require the reduction of emissions from motor vehicles. On September 24, 2004, the California Air Resources Board adopted a bill that requires all 2009 and later vehicles to reduce their greenhouse gas emissions by about 30% by the year 2016<sup>5</sup>. In addition, the California Global Warming Solutions Act of 2006 has been passed in order to comprehensively limit GHG emissions at the state level by establishing an annual reporting program of GHG emissions for significant sources and sets emissions limits to cut the state's GHG emissions to 1990 levels by 2020.

#### Annexation 2008-001

The EIR determined that Annexation 2008-001 would generate significant air quality emissions at build out due to operational use of electricity and natural gas and moving source emissions. In addition to these ongoing emissions, build out of Annexation 2008-001 would also generate temporary air quality emissions from grading, construction, and equipment deliveries. Temporary impacts were not quantified, since they would be dependent on project specific parameters which were unknown at the time. However, as required, each project within the annexation area would be required to prepare the appropriate CEQA compliant document, which would quantify all emissions associated with development, including temporary and ongoing air emissions.

As described in the General Plan Land Use Element, Annexation 2008-001 had the potential to result in 7,135,369 square feet of commercial space, 7,782,275 square feet of industrial space, and 4,236 residential units at build out. All of these land uses would generate air quality emissions from electricity and natural gas use, and from transportation.

<sup>&</sup>lt;sup>5</sup> http://www.ucsusa.org/clean\_vehicles/vehicles\_health/californias-global-warming-vehicle-law.html

The URBEMIS 2007 model (version 9.2.4, February 2008) was used to project air quality emissions for buildout of Annexation 2008-001. Table 6, reproduced from the EIR, quantifies the maximum daily air quality emissions for all criteria pollutants at build out of Annexation 2008-001. Using the factors set forth in the CEQA Handbook prepared by SCAQMD, on which MDAQMD relied, the following demands were estimated: total annual electricity demand of 220.7 million kilo-watt hours; total annual natural gas demand of 914.5 million cubic feet. In addition, build out was projected to result in 1.46 million miles a day traveled, assuming an average trip length of 8.06 miles. The build out population within Annexation 2008-001, 13,238 persons, had the potential to generate 226.4 pounds per day of ROG emissions from the use of consumer products.

Table 6
Projected Daily Emissions within Annexation 2008-001
at General Plan Build Out

Pollutant	Star	tionary Source Emissions		Moving Source Emissions	Total Project Emissions	Threshold Criteria*
	Consumer Products	Power Plant	Natural Gas	All Vehicles	Lbs./Day	Lbs./Day
CO	-	121	183	5,068	5,372	548
NOx	-	696	247	591	1,534	137
SOx	-	73	0.003	649	721	137
PM <sub>10</sub>	-	24	0.45	16	41	82
PM <sub>2.5</sub>	-	-	0.45	146	147	55
ROGs	226.4	6	18	98	348.4	137
CO2	-	-	300,664	1,670,120	1,670,120	N/A

\*Threshold criteria offered by the Mojave Desert Air Quality Management District for determining the significance of air quality impacts. Source: "CEQA and Federal Conformity Guidelines," MDAQMD, June 2007 and Urbemis 2007 Version 9.2.4 default emissions.

Air quality emissions associated with stationary and moving source emitters would have significantly exceeded established thresholds for all criteria pollutants, as shown in Table 6 above. Although mitigation measures included in the EIR would have somewhat offset emissions, impacts associated with build out of the annexation area would have resulted in significant and unavoidable air quality impacts. As a result, Findings and a Statement of Overriding Considerations were prepared and adopted by the Town Council concurrent with certification of the EIR in 2009.

#### Greenhouse Gas Emissions

The total carbon dioxide equivalent emissions in the entire State of California for the year 1990 were estimated to be 427 million metric tons. Table 7, reproduced from the EIR, illustrates the GHG emissions anticipated to occur as a result of build out of Annexation 2008-001. At build

out, the Annexation would contribute approximately 0.088% of the total California GHG emissions limits established by ARB for year 2020. In 2005, total carbon dioxide equivalent emissions for the United States were estimated at 7,260.4 million metric tons. The Annexation represented 0.005% of the total emissions for the U. S. as estimated in year 2005. In order to reduce GHG emissions, the Town prepared and adopted a Climate Action Plan immediately following the adoption of the General Plan. That Plan included a number of community and municipal measures designed to reduce GHG emissions to meet State mandates.

Table 7
Annual GHG Summary within Annexation 2008-001
at Build Out of the General Plan

Emission Source	CO2 Equivalent Metric Tons	CO2 Equivalent Million Metric Tons	Million Pounds Per Day
Electricity	80,671.16	0.081	487,258.81
Natural Gas	50,067.67	0.050	302,411.83
Moving Source	244,952.74	0.245	1,479,529.74
Total	375,691.58	0.376	2,269,200.38

Source: Emission factors for electricity usage and moving source emissions for CH4 and N2O are from "California Climate Action Registry General Reporting Protocol: Tables C5 and C6," version 3.0 prepared by California Climate Action Registry, April 2008. Natural gas emission factors for CO2 and Moving Source emissions CO2 are from "Calculations and References," of the Greenhouse Gas Equivalencies Calculator, prepared by EPA and last updated on August 4, 2008, and for CH4 and N2O emission factors are from "California Climate Action Registry General Reporting Protocol: Equations III.8d," version 3.0 prepared by California Climate Action Registry, April 2008. Note that CO2 Equivalent figures are based on SAR (1996) global warming potential of 21 for CH4 and 310 for N2O.

# Analysis of the Proposed 2018-001 Annexation, and Proposed 2018-001 Annexation Plus Remaining County Lands

The 2018-001 Annexation will generate significant air quality emissions at build out due to operational emissions, which include area source emissions, emissions from energy demand (electric and natural gas), and mobile source (vehicle) emissions. In addition to these ongoing emissions, build out of the 2018-001 Annexation will also generate temporary air quality emissions from grading, construction, and equipment deliveries. As was the case in the EIR, temporary impacts are not quantified, since they are dependent on project specific parameters which are unknown at this time. However, as was the case in the EIR, each project will prepare the appropriate CEQA compliant document, which will quantify all emissions associated with development, including temporary and ongoing air emissions.

As previously discussed, the 2018-001 Annexation has the potential to result in as much as 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out. All of these land uses would generate air quality emissions from electricity and natural gas use, consumer products, potable water supply, waste generation, and transportation.

The California Emissions Estimator Model (CalEEMod) Version 2016.3.1, which is the currently accepted model for the quantification of air emissions, was used to project emissions for build out of the 2018-001 Annexation. It should be noted that the air quality modeling software used in the 2009 General Plan EIR, URBEMIS, is now outdated and no longer commonly used in current planning. There are several differences in methodology between CalEEMod and URBEMIS, as shown below, that have resulted in unavoidable differences between the 2009 emission outputs and the 2018-001 emissions outputs.

- CalEEMod contains a separate energy module that increases flexibility in deriving GHG emissions as well as in mitigating the impacts from energy.
- Compared to URBEMIS, CalEEMod calculates VOC/ROG emissions on a "per square foot" basis instead of a "per person" basis, which generally results in lower emissions from consumer products for residential land uses, and higher emissions from consumer products for non-residential land uses.
- CalEEMod calculates natural gas related emissions under Energy Use (electricity and natural gas combined), which can result in an increase or decrease of criteria pollutant emissions depending on the land use; most trend to decreases in NOx and CO, and slight increases in ROG and PM.
- CalEEMod uses different default land use ITE trip rates, which tend to increase or decrease exhaust emissions depending upon land use (e.g., maximum residential ITE trip rate higher than weekday resulting in higher residential exhaust emissions). The ITE trip rates used in the current model are consistent with the currently published ITE trip rates, which have changed since 2009.
- CalEEMod includes different percentages of trips (home-work, home-shop, commercial-work, etc.) which tends to increase or decrease exhaust emissions depending upon changes in project location.

In order to provide an accurate comparison of the 2008 and 2018-001 Annexations, and because the URBEMIS model is no longer used in current planning, a re-run of Annexation 2008-001 was prepared using the CalEEMod model. Emission outputs for the 2018-001 Annexation and the re-runs for Annexation 2008-001 are provided in Appendix A.

Table 8 quantifies the maximum daily air quality emissions for all criteria pollutants for the rerun of the Annexation 2008-001, build out of the 2018-001 Annexation, and build out of the 2018-001 Annexation area plus build out of the remaining County lands. Unlike the previous analysis for Annexation 2008-001, default factor sets are verified and provided within the CalEEMod software, which eliminates the need to make assumptions for electricity, natural gas, consumer products and other emission source categories. In addition, mobile trip lengths for industrial truck trips have been increased from 8.06 miles to 100 miles, based on a number of studies recently completed to more accurately capture mobile emissions from regional transportation and hauling of industrial goods/materials, which increases the miles traveled. Overall, the differences in modeling software (CalEEMod versus URBEMIS), increased trip length for industrial land uses, and access to verified default factor sets have resulted in a net increase in criteria pollutants for Annexation 2008-001.

Table 8
Projected Daily Emissions of Project
at General Plan Buildout
(pounds per day)

Operational Emissions <sup>1</sup>	СО	NOx	ROG	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2008 Annexation Re-Run						
Area	8,352.92	130.63	7,138.17	14.51	1,123.93	1,123.93
Energy	27.11	51.87	5.98	0.32	4.13	4.13
Mobile	9,519.06	4,293.38	680.89	44.45	3,880.79	1,055.80
TOTAL	17,899.11	4,475.89	7,825.05	59.29	5,008.86	2,183.87
2018-001 Annexation Only	7					
Area	487.91	7.62	650.19	0.84	65.53	65.53
Energy	7.23	9.75	1.08	0.05	0.75	0.75
Mobile	5,039.76	2,463.81	390.00	23.34	2,004.19	545.40
TOTAL	5,534.91	2,481.19	1,041.28	24.25	2,070.49	611.68
2018-001 Annexation Plus County Lands						
Area	917.73	14.34	1,002.19	1.59	123.38	123.38
Energy	8.27	12.00	1.35	0.07	0.93	0.93
Mobile	5,231.14	2,526.99	400.11	24.26	2,088.33	568.27
TOTAL	6,157.15	2,553.34	1,403.65	25.92	2,212.62	692.58
MDAQMD Thresholds	548	137	137	137	82	55

**Source**: Threshold criteria offered by the Mojave Desert Air Quality Management District for determining the significance of air quality impacts.

Emission Source: CalEEMod model, version 2016.3.1.

Air quality emissions associated with buildout operation of the 2018-001 Annexation, and buildout operation of the 2018-001 Annexation plus remaining County lands, will significantly exceed established thresholds for all criteria pollutants, as shown in Table 8 above. Similar to Annexation 2008-001, impacts can be somewhat lowered by implementation of the mitigation measures included in the EIR. However, impacts associated with build out of the 2018-001 Annexation will result in significant and unavoidable air quality impacts, albeit lower than those associated with Annexation 2008-001, as did build out of Annexation 2008-001. Thus, Annexation 2018-001 will not result in any new significant unavoidable impacts or any substantial increase in the significant unavoidable impacts previously identified in the General Plan EIR.

#### Greenhouse Gas Emissions

The 2018-001 Annexation will generate greenhouse gas (GHG) emissions during both construction and operation. Similar to the above analysis of criteria pollutants, temporary impacts are not quantified since they are dependent on project specific parameters, which are

Average of winter and summer emissions, unmitigated, 2026 (GP buildout is 2025).

unknown at this time. Operation of the proposed project will create on-going greenhouse gases through five emissions sources: area, energy (electricity and natural gas), mobile, waste, and water. Table 9 provides a summary of the projected annual GHG generation associated with the re-run of the Annexation 2008-001, build out of the 2018-001 Annexation, and build out of the 2018-001 Annexation area plus build out of the remaining County lands. Overall, the differences in modeling software (CalEEMod versus URBEMIS), increased trip length for industrial land uses, and access to verified default factor sets have resulted in a net increase in greenhouse gas emissions for Annexation 2008-001.

Table 9
Annual GHG Summary within the Project Area at Build Out

Emission Source	CO2 Equivalent Metric Tons	CO2 Equivalent Million Metric Tons	Million Pounds Per Day
2008 Annexation Re-Run	700,461.49	0.700	4,230,830.72
<b>2018-001 Annexation</b>			
Total	354,479.82	0.354	2,141,080.04
<b>2018-001 Plus County</b>			
Lands	369,916.21	0.370	2,234,316.79
Source: CalEEMod Version 2016.	3.1		

Table 9 illustrates the GHG emissions anticipated to occur as a result of the re-run of the Annexation 2008-001, build out of the 2018-001 Annexation, and build out of the 2018-001 Annexation area plus build out of the remaining County lands. In comparison, the total carbon dioxide equivalent emissions in California for the year 1990 was estimated to be 427 million metric tons. At build out, the 2018-001 Annexation will contribute approximately 0.082% of the total California GHG emissions limits established by ARB for the year 2020. At build out, the 2018-001 Annexation plus remaining County lands will contribute approximately 0.086% of the total California GHG emissions limits established by ARB for the year 2020. In 2015 the total carbon dioxide equivalent emissions for the United States was estimated at 6,587 million metric tons. The 2018-001 Annexation and the 2018-001 Annexation plus the remaining County lands both represent 0.005% of the total emissions for the U. S. as estimated in year 2015.

The Town of Apply Valley adopted a Climate Action Plan (CAP) Update in 2013. The goal of the CAP is to reduce GHG emissions within City operations and throughout the community. The CAP GHG inventory was prepared using the Clean Air and Climate Protection (CACP) Software, which is the industry standard for climate action planning developed by Local Governments for Sustainability (also known as ICLEI, International Council for Local Environmental Initiatives). Various utility and service companies provided City-specific data for the years 1990, 2005, and 2010, which were used to populate the CACP software. This data includes electricity usage, natural gas usage, waste treatment, solid waste disposal, public transit data, and estimated citywide vehicle miles traveled. Future projects in the 2018 Annexation area will be implemented within this context. Therefore, since the CAP requires a reduction of 15% over "business as usual" conditions for all new projects, impacts of build out of the 2018-001 Annexation will comply with the Town's requirements for GHG reductions.

## **Summary of Impacts**

All criteria thresholds under both Annexation 2008-001 and the 2018-001 Annexation are projected to be exceeded even with the application of mitigation measures. Although emissions can be mitigated to a certain degree, significant and unavoidable impacts to air quality, including greenhouse gas emissions, will occur as a result of development of the 2018-001 Annexation and remaining County lands, but will be less than the level of impact identified in the EIR. The 2018-001 Annexation will result in significantly less criteria pollutant and greenhouse gas emissions when compared to Annexation 2008-001. Regardless of mitigation measures, development of the 2018-001 Annexation, including development of the remaining County lands, will contribute to cumulative air quality impacts locally and regionally. However, Annexation 2018-001 will not result in any new significant unavoidable impacts or any substantial increase in the significant unavoidable impacts previously identified in the General Plan EIR.

## D. Biological Resources

#### Summary of Findings in the EIR

The EIR included a comprehensive analysis of special-status and sensitive species, local habitats and vegetation communities, and jurisdictional waters in the General Plan area, including Annexation 2008-001. The Biological Resources Assessment included a literature review of the California Natural Diversity Data Base (CNDDB), San Bernardino County Museum records, California Department of Fish and Game staff records, various botanical and wildlife references for the Apple Valley area, and the California Environmental Information Catalogue. The Draft West Mojave Habitat Conservation Plan and Conservation Banking Program was referenced to describe the existing conditions in 2009.

The EIR determined that the General Plan area is located in the High Desert north of the San Bernardino Mountains, within the southwestern portion of the Mojave Desert, and is characteristic of desert environments, with hot dry summers and cool winters, including extreme fluctuations of daily temperatures, strong seasonal winds, and less than 5 inches of annual precipitation.

Elevations in the General Plan area range from approximately 2,550 feet above mean sea level (MSL) near the Mojave River up to approximately 4,800 feet above MSL within mountain ranges to the north, east, and south. Drainages and streams associated with the Mojave River have contributed to the topography of the region, and are considered to be ephemeral in that they rarely contain overland water flow and generally have poorly defined banks. Watercourses in the area flow into the Mojave River, Apple Valley Dry Lake, or inland depression areas. The Mojave River and associated drainages support riparian habitat and provide wildlife movement corridors.

#### Natural Communities

There are several natural communities represented in the General Plan area which support a wide variety of plant and animal species and various types of habitats, including the following:

- Saltbush Scrub
- Mojave Riparian Forest
- Wash Vegetation
- Sandfield Plant Community
- Joshua Tree Woodlands

- Creosote Bush Scrub
- Mojave Mixed Woody Scrub
- Montane Woodlands
- Non-native Communities

#### Common Species

A number of common species found in the planning area tend to be associated with disturbed Creosote, Saltbush, and Mojave Mixed Woody Scrub plant communities. They may be readily adaptable to urbanization and able to survive in ruderal habitats, such as those adjacent to roadways. The EIR concluded that a variety of common native and non-native species were found in the planning area.

# Special Status Species

The EIR determined that the planning area contains a wide range of special status species that are designated as sensitive, threatened, or endangered by federal and state governmental agencies. Those reported in the planning area included the following:

## Sensitive Plant Species:

- Booth's Suncup
- Desert Cymopterus

# Sensitive Invertebrate Species:

• San Emigdio Blue Butterfly

#### Sensitive Reptile Species:

- Common Chuckwalla
- Desert Tortoise

#### Sensitive Bird Species:

- Bendire's Thrasher
- Brown-Crested Flycatcher
- Burrowing Owl
- Cooper's Hawk
- Least Bell's Vireo
- Le Conte's Thrasher
- Prairie Falcon

#### Sensitive Mammal Species:

- Mojave River Vole
- Pallid San Diego Pocket Mouse
- Hoary Bat

- Joshua Tree
- Southern Skullcap
- Victorville Shoulderband
- Western Pond Turtle
- Southwestern Willow Flycatcher
- Summer Tanager
- Swainson's Hawk
- Vermillion Flycatcher
- Western Yellow-billed Cuckoo
- Yellow-breasted Chat
- Yellow Warbler

## Habitat Protection and Connectivity

The EIR determined that the planning area and vicinity contain areas of valuable habitat that support special status species. Therefore, a number of plans had been or were being developed to address issues associated with impacts to these areas, including the West Mojave Habitat Conservation Plan (Bureau of Land Management) and the Apple Valley Multiple Species Habitat Conservation Plan (MSHCP) currently being developed. These plans would provide important guidelines and criteria for these habitats by establishing requirements for the preservation and maintenance of wildlife movement corridors within the Town and vicinity.

West Mojave Habitat Conservation Plan: The EIR indicated that the West Mojave Habitat Conservation Plan, developed by the Bureau of Land Management (BLM), covers approximately 9.3 million acres of publicly owned land within San Bernardino, Kern, Los Angeles, and Inyo Counties. It is the largest habitat conservation plan to be developed in the United States. The Plan sets forth a comprehensive strategy for managing state and federally listed species, special status species, and their habitats on public lands. The plan mandates conservation of lands for specifically covered species, such as the Desert Tortoise, Mojave Ground Squirrel, Le Conte's Thrasher, Burrowing Owl, and others. The West Mojave Plan has achieved certification under the National Environmental Policy Act (NEPA) and only applies to federally owned lands within its planning area.

At the time the EIR was prepared, local, state, and federal entities were in the process of developing a private lands counterpart to the West Mojave Plan. Upon completion of the CEQA process for the plan by the County of San Bernardino, it was expected that future development on state, local government, and private lands would be covered and properly mitigated through the payment of a regional land development fee. It was also expected that, at completion of the CEQA process, it would be likely that specific survey requirements and permitting parameters for public and private land actions would be required. It was recommended in the EIR that the Town should aid the County of San Bernardino and other participating federal, state, and local agencies in the preparation of a private lands counterpart to the West Mojave Habitat Conservation Plan.

Apple Valley Habitat Conservation Plan: At the time the EIR was prepared, the Town of Apple Valley was also in the process of preparing a comprehensive Multiple Species Habitat Conservation Plan (MSHCP) that would address management for federally listed and other special status species occurring on private lands within the Town of Apple Valley. It would also enable the Town to streamline the development entitlement process and permitting while ensuring protection of sensitive environmental resources. Until the MSHCP is complete, individual development projects with potential to impact a listed species must process separate state and/or federal permits to address compliance with the state and federal Endangered Species Acts.

## Native Plant Ordinance

The Town of Apple Valley has adopted an ordinance (Chapter 9.76.040, "Plant Protection and Management") aimed at protecting native plants, which makes special provision for Joshua Trees

and other native species. The ordinance requires authorization from the Town prior to disturbing, removing, or destroying Joshua Trees, and when removal is necessary, prescribes their relocation and transplant requirements whenever feasible.

#### Annexation 2008-001

The EIR determined that the Annexation 2008-001 area is desert land occupied primarily by Creosote Bush Scrub habitat, which may support a number of common plant and animal species, as well as providing potential habitat for special status species. There are several ephemeral blueline streams which the biological resources study identified as jurisdictional, that intersect the annexation area in a north/south direction. These streams originate in the hills to the north and terminate at the Mojave River.

The EIR also determined that buildout of undeveloped areas, including vacant portions of Annexation 2008-001, had the potential to impact biological resources, including common and possibly special status species, through direct disturbance from development, habitat loss, and fragmentation. In order to assure that impacts to special status species were mitigated, site-specific evaluations of biological resources were to be required prior to site disturbance for any project occurring within the Annexation 2008-001 area which had the potential to contain special status species.

The EIR concluded that future development in the Annexation 2008-001 area could result in activities within and adjacent to ephemeral streams. Such activities would be subject to state and federal regulatory permitting requirements, to be determined at the time development proposals were reviewed by the Town.

Overall, the EIR determined that the impacts associated with biological resources were less than significant with implementation of mitigation measures.

## Analysis of the Proposed 2018-001 Annexation

Like the Annexation 2008-001 area, the proposed 2018-001 Annexation area is located within the Mojave Desert biome in a portion of the western Mojave Desert. It appears to be on the dividing line between the "High Desert Plains and Hills" and the "Lucerne – Johnson Valley and Hills" ecological subsection of the California Mojave Desert and within the "South-Central Mojave" subsection which encompasses the southern tip of the Mojave Desert.

Amec Foster Wheeler Environment & Infrastructure, Inc. prepared a biological resource assessment report for the proposed 2018-001 Annexation in September 2017.<sup>6</sup> Based on the literature review and field assessment of the site, the proposed annexation has the potential to affect a variety of special-status biological resources that are protected and/or regulated by the California Fish and Wildlife (CDFW), United States Fish and Wildlife Service (USFWS), United States Army Corps of Engineers (USACE), and/or Regional Water Quality Control Board (RWQCB).

<sup>&</sup>lt;sup>6</sup> Biological Resources Assessment Report Apple Valley Annexation Project, prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. on September 2017.

The proposed 2018-001 Annexation area is composed of 1,304 acres of land, which is currently vacant and undeveloped, characterized by a patchwork-like distribution of undeveloped, relatively natural open space, and a network of paved and unimproved roadways. The area is generally flat with some small rolling hills, rocky outcrops and intermittent small drainages (i.e., dry washes) present throughout. The open space within the proposed area has received only relatively minor levels of disturbance, primarily as a result of off-road vehicular use, dumping, and anthropogenic "edge effects." These "edge effects" include some vegetation clearing/weed abatement, establishment of dirt trails, trash deposition/accumulation, and use by domestic pets (sign of domestic dogs observed).

# Multiple Species Habitat Conservation Plan

The Town of Apple Valley is in the planning and development phase of a regional Multiple-species Habitat Conservation Plan/Natural Communities Conservation Plan (MSHCP/NCCP) that would address impacts to specified special-status biological resources that are known to occur, or have the potential to occur in and adjacent to the Town, in an area which extends beyond the boundaries of the proposed annexation.

Implementation of the MSHCP/NCCP is anticipated to cover and permit incidental take of covered species, which include federally and state-listed endangered and/or threatened species, species that are designated as "Species of Special Concern (SSC)" by the CDFW and species managed as "Sensitive" by the BLM. The area covered by the MSHCP/NCCP will address potential development impacts to an estimated total of 23,000 to 27,800 acres of existing undeveloped open space within the town limits and 37,500 acres of impacts within its sphere of influence.

Anticipated covered activities include development of housing, commercial and industrial development, agricultural activities, adaptive habitat management, and monitoring activities. In addition, other potential impacts include operation and maintenance of existing public facilities (3,200 acres), construction of new capital improvements and public facilities (1,400 acres) and the construction, operation and maintenance of future renewable energy projects (5,000 acres).

On 14 September 2010, a Memorandum of Understanding (MOU) was approved between the Town of Apple Valley and San Bernardino County. The MOU serves as a foundation for the Town and County to establish a clear, consistent, and predictable permitting process and procedure for future economic development. When complete, approval of future development applications within the MSCHP/NCCP planning area will be allowed, while conservation of covered species and their habitats will also be assured.

The 2018-001 Annexation is located within the coverage area for the MSHCP/NCCP. Once the MSHCP is implemented, participation in, and compliance with, the requirements and provisions of the MSCHP will ensure that project-related impacts to these species are permitted, covered, minimized, and mitigated. Payment of a development fee is likely to be the primary mitigation for projects not located in conservation areas. Participation and compliance with the Plan may also require additional actions, including surveys, for full coverage for some of these species.

#### Soil Type

The annexation area is predominantly composed of Cajon-Arizo Complex (2-15% slopes), Helendale-Bryman Loamy Sands (2-15% slopes), Nebona-Cuddeback Complex (2-9% slopes), Sparkhule-Rock Outcrop Complex (15-50% slopes), and Yermo-Kimberlina (Cool, Association, and Sloping). Soils and substrates in the area vary from undisturbed, naturally sandy areas, gravelly areas, loamy areas, rocky outcrops, disturbed surfaces, and developed areas. Existing disturbed and developed areas consist of paved and unimproved public and private roads, paved and unpaved trails, vacant cleared areas, and a railroad easement. No sand dunes, hummocks, clay lenses, springs, seeps, or natural bodies of water were evident in the area.

Review of the National Wetlands Inventory (NWI) indicated that approximately twenty-six (26) drainages, some of which are blue-line streams, traverse the area. A jurisdictional delineation was not conducted in the area for the proposed annexation, due to the programmatic nature of the analysis.

# Vegetation

The dominant vegetation community within the annexation area is Larrea tridentata Shrubland Alliance (Creosote bush scrub). Developed/urban areas (i.e., paved roadways) and disturbed areas (i.e., barren dirt roads and trails) are also intermittently present throughout the proposed annexation area.

Dominant perennial plant species observed included: creosote bush (Larrea tridentata), California buckwheat (Eriogonum fasciculatum), white bur-sage (Ambrosia dumosa), cheesebush (Ambrosia salsola), rubber rabbitbrush (Ericameria nauseosa), peach thorn (Lycium cooperi), Nevada ephedra (Ephedra nevadensis), sandpaper plant (Petalonyx thurberi), bladdersage (Scutellaria mexicana) and saltbush (Atriplex spp). Dominant annual plant species observed included: Sarahan mustard (Brassica tournefortii), tumble mustard (Sisymbrium sp.), short-pod mustard (Hirschfeldia incana), redstem fillaree (Erodium cicutarium), cheat grass (Bromus tectorum), red brome (Bromus madritensis ssp. rubens), common Mediterranean grass (Schismus barbatus) and annual bur-sage (Ambroisa acanthicarpa). Sparse Mojave yucca (Yucca schidigera), Joshua tree (Yucca brevifolia), golden cholla (Cylindropuntia echinocarpa) and diamond cholla (Cylindropuntia ramosissima) were also intermittently present throughout the proposed annexation area.

No special-status vegetation communities were observed within the proposed annexation area. A list of the plant species observed is provided in the Appendix 1 of the biological assessment report, included in Appendix B.

#### Wildlife

A total of fourteen (14) vertebrates were detected during the on-site investigation conducted for the biological assessment report. Vertebrate fauna detected included one reptile, seven birds, and six mammals. No fish or amphibians were detected. Western side-blotched lizard (Uta stansburiana elgans) was the only reptile detected. However, a variety of other species are expected to occur. These include, but are not limited to, desert banded gecko (Coleonyx variegatus variegatus), yellow-backed spiny lizard (Sceloporus uniformis), desert horned lizard (Phrynosoma platyrhinos), western zebra-tailed lizard (Callisaurus draconoides rhodostictus), Great Basin whiptail (Aspidoscelis tigris tigris), glossy snake (Arizona elegans eburnata), Great Basin gopher snake (Pituophis catenifer deserticola), western coachwhip (Coluber flagellum testaceus), and Mojave rattlesnake (Crotalus scutulatus).

The seven common species of birds observed on-site included mourning dove (Zenaida macroura), common poorwill (Phalaenoptilus nuttallii), common raven (Corvus corax), loggerhead shrike (Lanius ludovicianus), horned lark (Eremophila alpestris), European starling (Sturnus vulgaris), and house finch (Haemorhous mexicanus). Representative examples of other common bird species that are expected to occur include, but are not limited to, red-tailed hawk (Buteo jamaicensis), American kestrel (Falco sparverius), Gambell's quail (Callipepla gambelii), greater roadrunner (Geococcyx californianus), verdin (Auriparus flaviceps), and Costa's hummingbird (Calypte costae).

The six mammals detected included black-tailed jackrabbit (Lepus californicus), desert woodrat (Neotoma lepida), coyote (Canis latrans), California ground squirrel (Otospermophilus beecheyi), white-tailed antelope squirrel (Ammospermophilus leucurus), and other small rodents (species undetermined but rodent burrows present). Other small mammals, particularly rodents, occur on the site as small mammal burrows were observed. Although not observed, bats also likely forage onsite as suitable roosting habitat is present nearby within nearby rocky hillsides. Domestic mammals (i.e., dogs, cats and livestock) are also likely kept by residents surrounding the annexation area. Larger carnivores such as the kit fox (Vulpes macrotis), gray fox (Urocyon cinereoargenteus), and bobcat (Lynx rufus) were not detected but have the potential to occur in the annexation area as well.

#### Jurisdictional Areas

Many unnamed, mostly small, drainages (i.e., dry washes) are present throughout the proposed annexation area. None of the observed drainages were flowing or exhibited surface water at the time of the on-site investigation, and no riparian or hydrophytic vegetation, one of the indicators of "wetlands," were observed. Although these drainages would not likely meet the definition for wetlands, many would likely meet the definition of "waters of the United States" and/or "waters of the state of California" and thus fall under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and/or the CDFW. For these reasons, impacts (i.e., changes to the bed, bank or channel of rivers, streams and lakes) to these jurisdictional areas would require permitting by these agencies.

Programmatic permits and/or authorizations for MSHCP/NCCP-covered activities, however, may be issued at some time in the future. Until such time, however, nationwide permits, individual permits, streambed alteration agreements, water quality certifications, and/or any other required authorizations would need to be obtained by each individual project proponent, or the Town of Apple Valley on their behalf. Standard mitigation for impacts to jurisdictional areas

usually includes compensation of offsite "like" habitat, usually at a ratio of at least 1:1. The establishment of buffer zones around retained/avoided drainages will likely be required. Buffer zones are typically at least 50 feet in width.

# Migratory Bird Treaty Act (MBTA)

A variety of common bird species have no special status designations but are nevertheless protected by the MBTA. These include virtually all native migratory and resident bird species [e.g. killdeer (Charadrius vociferous)], common raven, common poorwill, greater roadrunner, verdin, and black-throated sparrow (Amphispiza bilineata), including birds already known to occur or having the potential to occur in the vicinity.

In order to avoid impacting nesting birds, avoidance of disturbance during the nesting season (generally February 1 through August 31) is recommended whenever and wherever possible. If avoidance of the nesting season is not feasible, additional impact avoidance and minimization measures may be required. These measures may include, but are not necessarily limited to, the following:

- 1) attendance of and compliance with a project-specific WEAP;
- 2) pre-construction clearance surveys;
- 3) biological monitoring;
- 4) establishment and observance of no disturbance buffer zones around active bird nests found during the daily preconstruction surveys until the young birds have fledged; and
- 5) trash containment and disposal to avoid attracting potential predators.

If nesting birds are found on a project site, work would not likely be permitted near the nest site (i.e., within the no disturbance buffer zone[s] surrounding nests) until young have fledged. While there is no established protocol for nest avoidance, when consulted the CDFW generally recommends avoidance buffers of about 500 feet for birds-of-prey, and 100–300 feet for songbirds. Routine monitoring of nests would document when the young have fledged. In the EIR, Mitigation Measure 4 was set forth in the Biological Resources discussion (Section III-D) to require site-specific nest surveys for the presence of migratory birds in accordance with established protocols and requirements of the Migratory Bird Treaty Act, prior to site disturbance. This is consistent with the recommendations made in the biological resources assessment for the 2018-001 Annexation.

Consistent with the EIR, mitigation measures recommended in the biological assessment report would be applicable to the 2018-001 Annexation. Furthermore, in addition to the payment of the requisite development fees and participation in the MSCHP/NCCP, which is designed to mitigate potential Project impacts to covered special-status biological resources occurring or potentially-occurring in the coverage area, additional measures designed to avoid and minimize impacts to the covered special-status biological resources potentially occurring on the Project site and/or immediately adjacent may also be required.

As the annexation area is currently undeveloped and undisturbed desert land, grading activities associated with the future development under the 2018-001 Annexation could affect undisturbed native soil/sediment that may contain biological resources. However, compared to Annexation 2008-001, the 2018-001 Annexation area encompasses approximately 50% fewer acres and, at buildout, could facilitate approximately 94% fewer residential units, 20% less commercial square footage, and 53% less industrial square footage compared to Annexation 2008-001.

Therefore, it decreases the potential for adverse impacts to biological resources and would not create any new impacts associated with these resources. Any such impacts would be less to those identified in the Certified EIR, and the same mitigation measures provided in the EIR would reduce impacts to less than significant levels.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Currently, the remaining County land is sparsely developed and would result up to 218 single-family residential units and 75,899 square feet of commercial space at build out. Impacts to biological resources for these lands will be similar to those identified for the 2018-001 Annexation, insofar as ground disturbance for residential and commercial development will result in loss of habitat for common species. Mitigation measures, including species-specific surveys, will be required by the County as development is proposed. However, given the low intensity of development resulting from Rural Living-designated lands, impacts would be reduced compared to those studied in the EIR. Overall, build out of the 2018-001 Annexation area, plus buildout of the remaining County lands, will result in somewhat reduced impacts from those disclosed in the EIR.

# **Summary of Impacts**

There is a potential for the 2018-001 Annexation area, including development of the remaining County lands, to contain biological resources, and future development of both sites could result in adverse effects on these resources. Given the reduction in acreage and potential building square footage associated with the 2018-001 Annexation and remaining County lands, these impacts would be less than the impacts analyzed for Annexation 2008-001 in the EIR. Impacts would be reduced to less than significant levels through implementation of the mitigation measures provided in the biological assessment report and EIR. The proposed project will not result in any new significant impacts or increase the severity of impacts already identified in the EIR.

#### E. Cultural Resources

#### Summary of Findings in the EIR

#### Archaeological Resources

The EIR determined that most of the General Plan area had not been surveyed systematically for cultural resources. The older neighborhoods near the center of Town were developed long before

federal and state regulations began to require such surveys as a part of the planning process. The areas where new development occurred in recent decades have received much more survey coverage, especially along the Mojave River.

The EIR identified a total of 48 recorded historical/archaeological sites in the General Plan area. These included 16 prehistoric (Native American) archaeological sites and 32 historic-period sites. Seven 'pending' sites, all prehistoric in nature, had also been reported. In addition, a total of 28 isolates (localities with fewer than three artifacts) had been discovered in the area.

The EIR identified six of the recorded prehistoric sites and five of the 'pending' prehistoric sites as large Native American habitation areas/villages along or in close proximity to the banks of the Mojave River. Archaeological evidence for these sites included the presence of rock shelters, bedrock milling features, pictographs and/or petroglyphs on surfaces of boulders, human cremations and associated grave goods, aboriginal trails, and midden. Such clustering of large and extensive Native American living areas is indicative of a reliance on the Mojave River and its tributaries for the necessities of daily life.

The EIR stated that approximately one-third of the total acreage within the General Plan planning area had been systematically and intensively surveyed for cultural resources; however, many prehistoric and historic sites that remained unsurveyed would be at risk through being unidentified and unrecorded.

During preparation of the Cultural Resources Technical Report for the EIR, the NAHC confirmed that, according to a search of the Sacred Lands File, no sites were recorded within the General Plan planning area, including Annexation 2008-001. At the time, only one response from the Morongo Band of Mission Indians had been received. The Cultural Resources Coordinator for the tribe advised that the tribe was aware of several cultural resource sites to the south and southeast of the planning area, and made recommendations regarding project review and protection of resources as development occurred.

#### Historic Resources

Historic maps from the mid-1850s identified the only evidence of human activities in the vicinity of the General Plan planning area was the historic Mormon Trail. That trail was identified in the maps as "Road to Salt Lake City," and at the nearest spot, it traversed in a north-south direction approximately 3.5 miles west of the northerly portion of the planning area. No man-made features of any kind were observed within or adjacent to the planning area at that time.

The EIR determined that the settlement and development of Apple Valley during the historic period occurred in three phases: the 1860s to the 1880s; the 1890s to the mid-1940s; and 1946 to present day.

Early Settlement in Apple Valley (1860s-1880s): Due to later redevelopment, little physical remains of these early settlement activities can be found today.

Agrarian Development (1890s-1940s): None of these early ranches survived to the present time, but remains associated with their heyday may still be found in the less developed portions of the planning area.

Birth and Growth of the Town (1940s-Present): The majority of the buildings constructed during this period were typical for the early post-WWII era, featuring primarily the "rambling" California Ranch-style architecture.

#### Paleontological Resources

The EIR determined that any surface or subsurface Pleistocene-age (1,808,000 to 11,550 years ago) soils that are present in the planning area may have a high potential to contain significant nonrenewable paleontological resources. The older sediments along the Mojave River, and at unknown depths below the surface, were given a higher priority. The more elevated portions of the area contain substantial exposure of Mesozoic-age (65,000,000 to 245,000,000 years ago) rocks that may be devoid of fossils. Grading of shallow excavations in the younger Quaternary alluvium throughout most of the planning area was unlikely to uncover significant fossil remains.

In summary, the likelihood of encountering paleontological resources during future development projects within the boundaries of the General Plan area ranges from low to high, depending on the location and sediments encountered.

## Conclusion

The EIR determined that it is likely that additional sites and structures may be discovered in areas of cultural resource sensitivity during future development of the planning area, including the Annexation 2008-001 area. Future development projects could potentially result in direct and/or indirect disturbance or destruction of sensitive archaeological and historic resources.

Impacts could include grading activities, site excavation, construction, and increased foot and vehicular traffic. Site surveys were required on all future developments on previously undeveloped land in areas identified as potentially sensitive for historic and prehistoric resources in the EIR to determine the presence and significance of archaeological and historic resources.

The EIR determined that future development in the planning area could also impact paleontological resources, should Pleistocene-age soils be disturbed by grading or excavation activities. Monitoring of grading activities by a qualified expert was required in areas where there is potential for disturbance to Pleistocene-age soils, to determine the presence and significance of such resources.

#### Annexation 2008-001

The EIR described that the Annexation 2008-001 area is located in an area previously identified as highly sensitive for archaeological resources, particularly prehistoric sites. Build out of this area could result in the disturbance and/or destruction of archaeological resources. Development activities, including grading, excavation, paving and building construction, as well as increased foot and vehicular traffic, could damage or destroy sensitive artifacts. The majority of the Annexation 2008-001 area has a low sensitivity for paleontological resources; however, the southwest corner has a high sensitivity rating.

The EIR stated that site surveys should be required as part of the initial project review process on all future development projects in sensitive areas. The mitigation measures provided in the EIR were applicable to all lands within the General Plan planning area, including the Annexation 2008-001 area, and were determined to reduce potential impacts to cultural and paleontological resources to less than significant levels.

# Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation area is currently undeveloped and undisturbed desert land. Grading activities associated with future development under the 2018-001 Annexation could affect previously undisturbed native soil/sediment that may contain archaeological or paleontological resources.

However, compared to Annexation 2008-001, the 2018-001 Annexation area encompasses approximately 53% fewer acres. Therefore, it decreases the potential for adverse impacts to cultural resources and would not create any new impacts associated with archaeological, historic, or paleontological resources. Any such impacts would be less to those identified in the EIR, and the same mitigation measures provided in the EIR would reduce impacts to less than significant levels.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The County will continue to implement the policies and programs of the San Bernardino County General Plan, and would implement CEQA requirements for cultural resources as development is proposed on lands outside the 2018-001 Annexation area but within Annexation 2008-001. Because of the reduced intensity associated with Rural Living-designated lands, less ground disturbance would be expected, and potential impacts to cultural resources would be reduced when compared to that considered in the EIR. Overall, build out of the 2018-001 Annexation, plus buildout of the remaining County lands, will result into similar impacts that were disclosed in the EIR.

# **Summary of Impacts**

There is a potential for the 2018-001 Annexation area and the remaining County lands to contain cultural resources, and future development could result in adverse effects on cultural resources. Given the reduction in acreage associated with the 2018-001 Annexation project, these impacts would be less than the impacts analyzed for Annexation 2008-001 in the EIR. However, with the development of both the 2018-001 Annexation area and the remaining County lands, impacts would be similar or somewhat less than what was analyzed in the EIR. Impacts would be reduced to less than significant levels through implementation of the mitigation measures provided in the Certified EIR. The proposed project will not result in any new significant impacts or increase the severity of impacts already identified in the EIR.

## F. Geology and Soils

## Summary of Findings in the EIR

The General Plan planning area is situated on gently sloping alluvial fans that range in elevation of approximately 3,400 feet above sea level near the base of the Fairview Mountains in the northeast to nearly 2,700 feet above sea level along the Mojave River in the west. Within the Town limits, notable geologic formations include Bell Mountain (3,897 feet above sea level) and Catholic Hill (3,645 feet above sea level). Other major features of the General Plan planning area include the Mojave River, a wide floodplain that runs along and defines a portion of Apple Valley's western boundary.

# Soils and Geologic Units

There are six types of geologic deposits that underlie the General Plan planning area: artificial or man-made fill, very young or recent alluvium, young alluvial and landslide deposits, older alluvial fan and valley deposits, sedimentary rocks, and crystalline rocks.

# Landslide and Slope Instability

An estimated 1,792.4 acres consist of hillside terrain and mountains in the Town, the majority of which are generally not developed, except for local mining operations. The EIR concluded that development has occurred at the base of steep slopes, and scattered residential, commercial, and other land uses are at risk of slope failure. Factors contributing to slope failure include slope height and steepness, shear strength and orientation of weak layers in the geologic units underlying the slope and water pressure between soil particles. Therefore, development should be minimized or avoided in areas that have greater than 15% slopes to limit potential impacts associated with slope instability and failure. The Development Code includes specific requirements and prohibitions for the construction of structures on slopes. These areas can be maintained as open space for recreation or health and safety. Where development is proposed adjacent to slopes, hillsides, and mountains, site-specific analyses that address the potential impacts of rock falls, landslides, and slope stability must be conducted to assess site-specific impacts and provide appropriate mitigation measures.

# Compressible Soils

In the General Plan planning area, compressible soils are most likely to occur where young (Holocene-age) unconsolidated deposits are present, as well as active and recently active stream channels. In addition, compressible soils are commonly found in canyon bottoms, swales, and at the base of natural slopes. Compression is also associated with landslide deposits, particularly at the head and along the margins of the slide. Proper engineering and thorough geotechnical soils analyses can minimize potential hazards associated with compressible soils.

The EIR concluded that the planning area is primarily underlain by young alluvium that is potentially susceptible to collapse and compression. This potential is exacerbated when additional weight loads and/or pressure is applied.

## Collapsible Soils

In the General Plan planning area, very young alluvial sediments that are granular in nature may be susceptible to adverse impacts to structures and infrastructure if not properly managed.

# Expansive Soils

In the General Plan planning area, expansive soils are primarily associated with areas underlain by older fan deposits containing argillic (clay-rich) soil profiles, which are in the moderately expansive range. In addition, the Apple Valley Dry Lake contains very fine-grained silts and clays that are potentially expansive. Alluvial fan sediments, composed primarily of granular soils, underlie the low-lying areas of the Town and the expansion potential ranges from very low to moderately low.

The EIR concluded that the collapsible, compressible, and expansive soils can have adverse impacts on structures and infrastructure if not properly managed; therefore, site-specific studies must be conducted to evaluate soil parameters and determine the potential for soil collapse, compression, and expansion.

#### Ground Subsidence

The EIR determined that the Mojave River Groundwater Basin underlies the Town of Apple Valley and vicinity. Water extraction from the basin has historically occurred at rates that exceeded natural replenishment, leading to an overdraft condition in the basin. Groundwater levels in the basin dropped more than 100 feet between the 1950s and 1990s, and approximately 30 feet in the following 20 years. Overdraft of the water basin can lead to ground subsidence. Based on US Geological Survey and Mojave Water Agency studies of subsidence in the Mojave River Groundwater Basin, the closest subsidence area to the Town of Apple Valley is located approximately seven miles northwest.

The EIR concluded that, to date, subsidence has not been detected within Apple Valley's town limits. The continued implementation of groundwater conservation and recharge activities in the Apple Valley area contributes to the management of ground subsidence.

#### Soil Erosion

The EIR determined that the Town of Apple Valley and vicinity are subject to erosion, runoff, and sedimentation due to the extreme topographic relief between the valley and the surrounding hills and mountains. Human activities, such as land development, accelerate natural erosion by disturbing the ground surface, which can expose sediment deposits to wind and water transport, alter natural drainage patterns, and increase the potential for erosion and sedimentation. Local modification of geological conditions, such as an increase in impermeable surfaces, can result in geological changes elsewhere, such as an increase in the potential for flooding and sedimentation downstream. Natural events, such as wind and rain storms, can also lead to accelerated rates of erosion. The elevation difference between the Cajon Pass and the valley floor results in strong winds under certain climatic conditions.

The EIR determined that strong winds combined with sandy surface soils commonly found in Apple Valley have the potential to result in wind erosion that poses an environmental hazard.

# Earthquake Faults and Ground Shaking

The General Plan planning area is located within a seismically active area (Seismic Risk Zone 4) and lies within approximately fifty miles of three active faults that are capable of generating earthquakes greater than  $6.5~M_{\rm w}$ . Should an earthquake occur on one of these faults, the General Plan planning area and surrounding areas could be subject to peak ground accelerations greater than 0.13g, causing severe damage to buildings and structures.

The EIR determined that North Frontal and Helendale faults are the closest faults to the planning area and could generate the highest peak ground accelerations (1.13 and 0.75g, respectively). The North Frontal Fault is a south-dipping fault, partially blind reverse fault zone along the eastern flank of the San Bernardino Mountains and consists of several fault splays that have a combined total length of approximately 40 miles. Several of the fault splays interact with other nearby faults; the most significant of these is the Helendale Fault, which seems to right-laterally offset the North Frontal fault zone, dividing it into two main segments. Both the North Frontal and Helendale faults are designated as Alquist-Priolo Earthquake Fault Zones within portions of the planning area.

The EIR determined that surrounding geologic faults have the potential to cause moderate to extreme ground shaking and significant ground acceleration in the planning area. Seismic activity of this magnitude has the potential to result in direct damage to structures, property, and infrastructure, and/or generate indirect hazards such as slope instability, liquefaction, settlement, landslides, and seiche in Silverwood Lake and shallow lakes throughout the study area, and can cause a variety of localized hazards such as urban fires, dam failures, and toxic chemical releases.

Damage to infrastructure and utility systems could exacerbate post-earthquake conditions. There are many roadways within the area that could fail during an earthquake, which would impede traffic and restrict access to and from Apple Valley by emergency response teams. In addition, disruption to utilities, such as telephone, gas, energy, and water, could substantially affect efforts to alleviate damage and provide support, including fire suppression, and access to heating and cooling, and potable water.

The EIR determined that the seismic activity could also result in significant damage to smaller structures. The Town requires all new buildings to utilize reinforced masonry, as well as comply with the Uniform Building Code (UBC), which is expected to enable structures to resist major earthquakes without collapsing, although structural damage could occur. Unreinforced masonry buildings within the Town have been retrofitted in compliance with state law. In order to limit impacts associated with surface ruptures within Alquist-Priolo Earthquake Fault Zones, the Town is mandated by law to require that geological investigations, including but not limited to fault trenching, be performed if development is proposed in proximity to these zones.

The EIR included a range of mitigation measures that reduce potential project-related impacts to less than significant levels.

#### Annexation 2008-001

The EIR determined that Annexation 2008-001 would support a variety of land uses at build out, including residential, office, commercial, and industrial uses. Although build out would occur gradually over several years, the development of the annexation area had the potential to present geological hazards to people and structures. The soil underlying the Annexation 2008-001 area is comprised of very old alluvial valley deposits (Qvoa) with moderately consolidated sand and gravel. This sediment type, due to its age, may be more compact, and therefore provide better structural support compared to younger sediment types. However, clayey soils may have accumulated on the surface, which could result in expansion when saturated.

The EIR determined that the annexation area, like the rest of Apple Valley, is situated in close proximity to several faults that have the potential to cause strong to severe ground shaking, which could result in damage to structures, infrastructure, and persons, or generate seismically induced hazards. Site-specific analyses should be conducted prior to development to identify potential hazards and set forth effective mitigation measures. Development standards that minimize impacts from structural failure and promote the health and safety of residents must also be maintained during development.

Overall, the geotechnical impacts associated with buildout of the Annexation 2008-001 area would be less than significant with incorporation of mitigation measures provided in the EIR.

#### Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation area is part of the Annexation 2008-001 area and, therefore, is characterized by the same geologic conditions and geotechnical constraints evaluated in the EIR.

Fault Rupture: The 2018-001 Annexation area is not located within an Alquist-Priolo Fault zone. The nearest active fault to the project site is the Helendale Fault located approximately 2 miles northeast of the site. Active faults with the potential for surface rupture are not known to be located beneath the project site. Therefore, there is no potential to expose people to impacts from fault rupture resulting from seismic activity during the design life of the buildings.

Seismic Ground Shaking: As discussed above, the 2018-001 Annexation area is located in a seismically active region (Seismic Risk Zone 4). There is potential for significant ground shaking to occur within the annexation area during a strong seismic event on the Helendale Fault and other active regional faults. According to the Geotechnical Background Report provided in the EIR, based on the location of the faults in the region, the maximum Peak Ground Acceleration (PGA) is 8.0g for the area. Ground shaking at this intensity could result in significant damage to buildings and improvements associated with build out of the 2018-001 Annexation area. This is considered a potentially significant impact; therefore, the Town requires that all new construction meet or exceed the Town ordinances and policies and the latest standards of the California Building Code (CBC) for construction in seismic hazard zones, which requires structural design that can accommodate maximum ground accelerations expected from known faults. Implementation of applicable mitigation measures set forth in the EIR would further ensure that potentially significant seismic-related groundshaking impacts would be reduced to less than significant levels.

Ground Failure: As indicated in the EIR, the project site is located in an area that has been identified by the State of California as being potentially susceptible to liquefaction, which can also result in secondary effects, such as lateral spreading and other earthquake-induced ground settlement. However, with implementation of applicable mitigation measures provided in the EIR, impacts to future development in the 2018-001 Annexation area would be reduced to less than significant levels.

Landslides: No slope areas considered susceptible to landslides or other slope failure exist in the 2018-001 Annexation area. Given the distance of natural slope areas from the project site and relatively flat topography on-site, no impacts related to landslides would occur in the 2018-001 Annexation area.

Soil Erosion or the loss of topsoil: Development activity in the 2018-001 Annexation area would have the potential to result in the erosion of soils; however, this potential would be reduced by implementation of standard erosion control measures imposed during site preparation and grading activities, consistent with that described in the EIR. Implementation of applicable mitigation measures identified in the EIR would further reduce potential impacts to less than significant levels.

Expansive Soil: The project area is characterized by sandy granular soils that exhibit low clay content and very low expansion potential. Although not anticipated, expansive soils, if encountered within the annexation area, would be removed and replaced as part of standard construction practices, pursuant to Town and CBC building requirements. Additional mitigation measures described in the EIR would further reduce potential impacts associated with expansive soils. Therefore, build out of the 2018-001 Annexation area would result in less than significant impacts associated with expansive soils.

Septic Tanks or Alternative Wastewater Disposal Systems: The annexation area is currently undeveloped. Build out of the 2018-001 Annexation area will result in increased wastewater production as compared to existing conditions. Wastewater infrastructure will need to be extended to the annexation area so that the Town's wastewater service can serve future development. New projects in the annexation area, that exceed regional water quality control discharge volumes, will be conditioned by the Town to connect to wastewater systems located south and east of the annexation area, thereby eliminating the potential for impacts associated with septic tanks.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Build out of the remaining County land would result in residential and commercial development in the same geological and soil conditions as discussed in the Town of Apple Valley General Plan. Future development of the remaining County land would be required to comply with all applicable rules and regulations related to geology and soils, including the Uniform Building Code. Overall, build out of the 2018-001 Annexation, plus buildout of the remaining County lands, will result into similar impacts to those disclosed in the EIR.

# **Summary of Impacts**

Build out facilitated by the 2018-001 Annexation and the remaining County lands will result in the conversion of vacant lands to residential, commercial, and industrial uses in a seismically active region, and could expose people and structures to potential geotechnical hazards. However, compared to Annexation 2008-001, the 2018-001 Annexation decreases the potential impacts of these hazards by reducing the project's acreage by approximately 53%, residential, commercial, and industrial development potential by approximately 94%, 20%, and 53%, respectively. The development of the remaining County lands would include residential and commercial development, but would still result in less development than that analyzed in the EIR. Like Annexation 2008-001, development of the 2018-001 Annexation and the remaining County lands would conform with current Uniform Building Code (UBC) requirements, and the seismic safety requirements in the California Building Code (CBC). Potential hazards would be further reduced by implementation of the mitigation measures set forth in the EIR.

The 2018-001 Annexation would not generate new significant impacts or a substantial increase in previously identified impacts associated with geology and soils. There is no new information of substantial importance which was not known and could not have been known when the EIR was certified. However, with the reduction in the new annexation's build out potential, the cumulative impacts to geology and soils will be less than those disclosed in the EIR.

#### **G.** Hazardous and Toxic Materials

# Summary of Findings in the EIR

The Hazardous Material Division of the San Bernardino County Fire Department is the administering agency and the Certified Unified Program Agency (CUPA) responsible for the regulation of hazardous materials for the Town. Standards established by the Town's Development Code are intended to ensure that the use, handling, storage, and transportation of hazardous materials comply with all applicable requirements of the State Government Code Section 65850.2 and Health and Safety Code Section 25505, and Article 80 of the Uniform Fire Code.

The Town's Multi Hazard Functional Planning Guidance Document (Multi Hazard Plan) establishes contingency plans when an incident involving hazardous materials occurs. The Town works with the Hazardous Materials Division (HMD) of the San Bernardino County Fire Department. The Hazardous Materials Team, a unit of the Apple Valley Fire District and a member of the San Bernardino County Hazardous Materials Team, responds to all calls received related to hazardous materials in Apple Valley, including fuel spills and the illegal dumping of unknown products in the Town and surrounding area, which are all part of the Fire District's service area. Local businesses must certify any hazardous materials at their facilities with the County HMD on an annual basis. HMD performs compliance inspections of facilities that handle hazardous materials, which are defined by the California Code of Regulations (Title 22).

#### Hazardous Sites

The EIR determined that there are a limited number of small quantity generators that use or produce hazardous materials in Apple Valley and surrounding areas. At the time the EIR was prepared, there were 15 properties within the planning area that were listed in environmental databases. Of those 15 properties, 11 were listed as a result of generating, using, and/or disposing relatively small quantities of potentially hazardous materials from their business location, with no material releases having been reported on these properties. Significant hazardous material releases into the underlying soil and groundwater were not suspected at these locations.

The EIR found that there were no large quantity generators of hazardous waste in the Town of Apple Valley.

A search of the US EPA Envirofacts Data Warehouse did not identify any Federal Superfund Sites (NPL), State Response Sites, Voluntary Cleanup Sites, School Cleanup Sites, Permitted Sites, or Corrective Action Sites. The search did identify 7 school investigation sites, all of which required no further action since no hazards were found. A search for Leaking Underground Fuel Tank (LUFT) cleanup sites identified 15 spills within the Town.

The EIR determined that approximately 560 acres within the North Apple Valley Industrial Specific Plan, which is located southeast of the proposed annexation area, were previously used as a practice bombing range by the U.S. Army Air Force during World War II. This area, formerly referred to as Victorville Pre Bomb Range N-1, may contain potential hazards due to the presence of known or suspected military munitions and explosives of concern.

# Airport Safety

The Apple Valley Airport, located at 21284 Corwin Road, has a moderate to high potential for hazardous material spills. The airport is permitted to discharge less than 1,000 gallons per day of treated sewage, which is considered a minor threat to groundwater. In addition, the site contains four underground fuel storage tanks, none of which have any reported spills or leaks.

The EIR determined that the San Bernardino County Department of Airports manages the maintenance and operation of the Apple Valley Airport. Two primary hazards derived from aviation activities include noise and aviation safety.

## Emergency Response

At the time the EIR was prepared, the County of San Bernardino was developing mass evacuation plans for each region within the County, but the high desert region plan had not been completed.

The EIR determined that the Atchison Topeka and Santa Fe Railroad, Interstate 15, and Highway 18 may be used in the transfer of hazardous wastes and materials within the planning area. Therefore, the potential exists for spills and leaks from moving sources along these corridors, including within the proposed annexation area. The California Highway Patrol (CHP) is responsible for cleaning up hazardous waste spills that occur in or along freeways, and coordinating with California Department of Transportation (Caltrans) and the local sheriff and fire departments for additional enforcement and routing assistance. These two agencies' regulations will continue to govern the transport of hazardous materials through Town and the region.

#### Potential Impacts

Although no "large scale" hazardous waste producing industries were planned for the planning area, a number of businesses have the potential to use hazardous materials and produce hazardous wastes. Commercial and industrial service providers, such as dry cleaners, film processors, mechanics, and others, have the potential to use and produce hazardous materials and wastes. These hazardous material users and hazardous waste generators are regulated by county, state, and federal law, and are required to comply with the California Hazardous Waste Control Law (California Health and Safety Code, Division 20, chapter 6.5) and the California Hazardous Waste Control Regulations (California Code of Regulations, Title 22, Division 4.5).

The EIR determined that the planned increase in the residential population resulting from build out of the General Plan and two annexation areas would lead to an associated increase in the use of common household cleaners, batteries, fluorescent tubes, mercury-containing devices, and electronics. In order to safely dispose of these wastes, the San Bernardino County Fire Department maintained a collection facility, located at 22411 Highway 18, which accepted a wide variety of household wastes. This facility, or similar facilities, was expected to continue to operate through the build out of the General Plan and annexation area.

The EIR concluded that approximately 560 acres in the west-central portion of the General Plan study area was formerly used as a practice bombing range by the U.S. Army Air Force during World War II. Based on the Environmental Records Review of the Phase I Environmental Assessment prepared for the Town of Apple Valley, a formerly used defense site (FUDS) summary reported that this property contains a high risk due to unexploded ordnances. Further background study was to be required for the former bombing range prior to development to reduce the potential impacts at this location to less than significant levels.

#### Annexation 2008-001

The EIR determined that Annexation 2008-001 had the potential to result in 7,135,369 square feet of commercial space, 7,782,275 square feet of industrial space, and a total of 4,236 residential units at build out. Growth and development of this annexation area would increase the frequency of transport, use, and disposal of hazardous materials associated with residential, commercial, and industrial growth. The area was generally undeveloped and was not likely to contain contaminated or potentially contaminated sites; however, site-specific analyses were to be conducted to determine potential areas of known and/or potential soil and/or groundwater contamination.

The EIR concluded that the impacts associated with hazards and hazardous materials would be less than significant, because requirements imposed by the Town, County, state, and federal agencies would regulate any hazardous materials transport, storage, or use. The EIR determined that there was no need for additional mitigation measures beyond these standard requirements; nonetheless, it identified several mitigation measures that would help ensure impacts remained at less than significant levels over the long term.

#### Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation area is located in the western portion of the Annexation 2008-001 area analyzed in the EIR. Hazardous materials monitoring and emergency response within the annexation area will be covered by the Hazardous Material Division of the San Bernardino County Fire Department. Currently, the annexation area is undeveloped, and no potential hazardous material sources have been identified.

Build out of the 2018-001 Annexation area has the potential to result in 247 residential units, 5,657,059 square feet of commercial space, and 3,646,216 square feet of industrial space. Compared to Annexation 2008-001, this represents a decrease in potential urban development, and an associated decrease in the potential for hazardous materials related incidents to occur. Land uses proposed in the 2018-001 Annexation area are similar to those proposed by Annexation 2008-001, and no unusual or particularly hazardous uses are anticipated. Therefore, the new annexation would not create any new impacts associated with hazardous and toxic materials, and any such impacts would be less than those identified in the EIR.

The western boundary of the 2018-001 Annexation area is in close proximity to Interstate 15, which is used to transport hazardous materials. However, the Town's required setbacks and other development standards would minimize potential hazardous materials impacts along this corridor. Hazardous incidents would be controlled by established emergency response procedures implemented by the California Highway Patrol (CHP), California Department of Transportation (Caltrans), and the local sheriff and fire departments.

Grading, excavation, and construction activities within the 2018-001 Annexation area have the potential to expose and disturb soils, and surface water runoff could be degraded onsite. In addition, the storage and use of hazardous materials at individual properties as they develop, such as paints, solvents, and fuels, could be potential sources of pollutants. However, continued implementation of existing laws and regulations will ensure that hazardous materials and wastes are used, stored, transported, and disposed of appropriately. Future development within the annexation area will also be required to meet the standards of the Town's Multi Hazard Plan and Municipal Code – Chapter 6.20: Solid Waste Regulations during construction and operation phases.

The 2018-001 Annexation would not create any new or increased impacts associated with hazards or hazardous materials, and given that it reduces the total acreage and development potential compared to Annexation 2008-001, any such impacts would be less than those identified in the EIR. Like Annexation 2008-001, implementation of the mitigation measures set forth in the EIR will assure that impacts remain at less than significant levels.

#### Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Build out of the remaining County lands would result in residential and commercial development. Once developed, cleaners, solvents, fertilizers, and pesticides will be used at individual properties for routine cleaning and landscaping. Future development of the remaining County land would be required to comply with all applicable rules and regulations, including federal and State laws, and with County requirements associated with the storage, use and transport of these products for commercial purposes. The reduction in intensity of development in this area, when compared to that analyzed in the EIR, would result in a reduction in potential impacts, insofar as less quantities of household cleaners, solvents and fertilizers will be used than would have been under the EIR development scenario. Overall, build out of the 2018-001 Annexation area, plus buildout of the remaining County lands, will result into lower impacts than were disclosed in the EIR.

#### **Summary of Impacts**

The 2018-001 Annexation and build out of the remaining County lands would not involve new significant impacts or a substantial increase in previously identified impacts associated with hazards and hazardous materials. Additionally, there are no substantial changes to the circumstances under which the 2018-001 Annexation will be undertaken, and no new information of substantial importance, which was not known and could not have been known

when the EIR was certified. The impacts associated with hazards and hazardous materials will be less than those disclosed in the EIR. With the build out of both the 2018-001 Annexation area and the remaining County lands, impacts would be less than what was analyzed in the EIR.

# H. Hydrology

# Summary of Findings in the EIR

The EIR determined that the General Plan planning area is located within the boundaries of the Alto Subbasin, which consists of water bearing strata underlying a 35-mile length of the Mojave River. The Mojave River is the primary natural source of recharge for the subbasin.

The General Plan planning area is located in the southern portion of the Mojave Desert where the climate is characteristic of a high desert ecosystem, which experiences extreme fluctuations of daily temperature, strong seasonal winds, and receives less than 5 inches of annual precipitation. Most of the streambeds in the region are dry much of the year except for periods of spring runoff and from flows associated with intense rainstorms.

The Mojave River is the major watercourse in the region, and is fed by several tributary dry washes, the largest of which, the Bell Mountain Wash, is a natural channel that collects runoff primarily from the north and west. The Desert Knolls Wash, which contains a partially lined concrete drainage basin, is a smaller wash that drains the area west of Catholic Hill. There are also several small, unnamed drainages that channel flows from the western part of the Ord Mountains towards the Mojave River. Other watercourses flow into the Apple Valley Dry Lake. The Apple Valley Dry Lake is the largest playa in the area, collecting runoff from most of Apple Valley. The Reeves Dry Lake, a smaller playa to the east of the planning area in the central part of Fairview Valley, collects runoff from the adjacent mountains.

The General Plan planning area has historically been subject to flooding and associated hazards, such as mudflows, during severe summer storm events. The winter rainfall in February and March of 1938 stands as the benchmark for damaging storms in the Apple Valley area; during this event, peak stream flow for Deep Creek was estimated at more than 46,000 cubic feet per second, and flows in the Mojave River increased to more than 70,000 cubic feet per second.

The San Bernardino Flood Control District is responsible for management of regional drainage facilities, and the Town is responsible for management of local drainage facilities. The EIR stated that existing drainage infrastructure and plans for improvement are described in the Apple Valley Master Plan of Drainage and the Apple Valley West/Desert Knolls Master Plan of Drainage. Areas identified within the 100-year flood zone are primarily associated with Apple Valley Dry Lake, Desert Knolls Wash, and the Mojave River; however, a large portion of the area had not been studied by FEMA and flood hazards were undetermined. The southwesterly portion of Town is subject to flooding resulting from failure of the upstream Mojave River Forks Dam; inundation in other areas could also occur as a result of failure of above-ground water tanks at multiple locations in and surrounding the Town limits.

The EIR concluded that as the population grows, development pressure will amplify flood hazards, as urbanization and associated impervious surfaces, such as roadways, sidewalks, and parking lots, increase. Water that would at one time have been absorbed into the ground will be dispersed as runoff to downstream areas. Future development also has the potential to alter existing drainage patterns and, in some areas, to result in the accumulation of a significant amount of debris during large storms.

To minimize the potential impacts on hydrology, the EIR included requirements for the preparation of hydrologic studies for new developments within the Town, as well as continued implementation of flood hazard reduction measures in the Town's Development Code, Grading Ordinance, Subdivision Ordinance, Flood Hazard Overlay Ordinance, and other applicable regulations.

#### Annexation 2008-001

The EIR determined that the Annexation 2008-001 area was largely undeveloped, and included several shallow, dry washes (ephemeral streams) of relatively small width which flow southeasterly throughout the annexation area. Portions of Bell Mountain Wash, previously described, occur in the Annexation 2008-001 area. This annexation area is designated by FEMA as Zone D, which is within the floodplain but not within the Special Flood Hazard Area (SFHA).

The EIR concluded that build out of Annexation 2008-001 would result in smaller scale developments (i.e. residential, commercial, and industrial uses) which would increase impervious surfaces, reduce permeable soils, and require the installation of retention/detention basins and other on-site flood control facilities. Site-specific analyses were to be conducted prior to development that would identify potential hazards, and set forth effective mitigation measures and development measures that minimize hydrological impacts and promote the health and safety of residents. Future development within the General Plan planning area, including the Annexation 2008-001 area, would require that developers obtain any applicable state and federal regulatory permitting for activities that involve disturbance to stream banks or beds. The EIR included a variety of mitigation measures to reduce potential hydrological impacts. With implementation of these mitigation measures, impacts associated with hydrology were considered to be less than significant.

# Analysis of the Proposed 2018-001 Annexation

Hydrological conditions in the 2018-001 Annexation area are identical to those analyzed for Annexation 2008-001 in the EIR. The 2018-001 Annexation area remains undeveloped but contains paved and unpaved roads; therefore, there are limited impervious surfaces onsite. Like the Annexation 2008-001 area, the 2018-001 Annexation area contains portions of the Bell Mountain Wash and several shallow and dry washes (ephemeral streams). The flooding potential of the area has not been reevaluated by FEMA since the EIR was prepared and is, therefore, still designated as Zone D which means these areas are within the floodplain but not within the Special Flood Hazard Area (SFHA).

Conversion of the 2018-001 Annexation area from undeveloped land to residential, commercial, and industrial uses would increase impervious surfaces, such as rooftops, roads, parking lots and driveways, which in turn would increase runoff. This runoff could contain oil and grease, heavy metals, chemicals, and other pollutants. However, the management of urban runoff would be subject to Town, San Bernardino Flood Control District, RWQCB, and other requirements and would require the construction of onsite infiltration facilities, retention basins, and/or other water quality protection features. Stormwater retention basins would be sized according to final drainage calculations based on site-specific impervious areas and hydrologic analysis. However, the 2018-001 Annexation area encompasses approximately 48% of the acreage contained within the Annexation 2008-001 area, and will result in a substantial reduction in development square footage, thereby generating smaller amounts of grading, building footprints, and impervious surfaces than Annexation 2008-001. Therefore, impacts associated with hydrology and surface water pollution will be less than what was analyzed in the EIR for Annexation 2008-001.

Implementation of the 2018-001 Annexation, like Annexation 2008-001, would not expose people and/or structures to flood hazards from dam failure, as the area is outside of established dam inundation pathways (EIR Exhibit III-13). Like Annexation 2008-001, development in the 2018-001 Annexation area could be subject to seismically-induced seiche from above-ground water tanks. However, seiche-related hazards can be expected to be less than those anticipated under Annexation 2008-001 because the proposed 2018-001 Annexation area involves fewer acres and development potential than Annexation 2008-001, and does not propose new or different land uses that would increase hydrological hazards. All development within the 2018-001 Annexation, like Annexation 2008-001, would comply with all applicable federal, state, and local laws and regulations related to hydrology, drainage, and flooding.

The Apple Valley Master Plan of Drainage and Town of Apple Valley Flood Hazard Overlay Ordinance contain various policies related to hydrology, drainage, and flooding. In addition, the Town's General Plan and the State and Federal Clean Water Acts also contain policies relevant to hydrology that will be applicable to development within the 2018-001 Annexation area.

Like the 2008-001 Annexation, build out of the 2018-001 Annexation area would require compliance with applicable regulatory requirements, which include implementation of project-specific SWPPPs to address water quality impacts during construction activities and/or implementation of unique project design features, and Best Management Practices (BMPs) to ensure that construction and operational water quality impacts are less than significant. Based on the similar pattern of development with a reduced intensity resulting from the 2018-001 Annexation, impacts associated with the 2018-001 Annexation would also be less than significant.

Implementation of the 2018-001 Annexation would not result in any new impacts or increase the severity of a previously identified significant impact as previously analyzed in the EIR. Overall impacts are expected to be less than previously identified in the EIR due to reductions in project area acreage and development potential. Therefore, implementation of the 2018-001 Annexation would not result in any new adverse impacts or increase the severity of previously identified significant impacts in the Certified EIR.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

As with the land included in the 2018-001 Annexation, future development of the remaining County land would be required to comply with all applicable rules and regulations related to hydrology, including federal and State laws, and County's requirements for the protection of structures, and of water quality through NPDES and similar standard requirements.

#### **Summary of Impacts**

Future development in the proposed 2018-001 Annexation area and the remaining County lands shall be required to be designed to meet or exceed requirements for storm water retention, consistent with the analysis provided in the EIR. The 2018-001 Annexation and the remaining County lands would result in a lesser amount of grading, building footprints, and impervious surfaces compared to Annexation 2008-01. Therefore, the 2018-001 Annexation would not create any new impacts associated with hydrology during construction or operation, and any such impacts would be less than those identified in the EIR. Like Annexation 2008-001, development within the 2018-001 Annexation area and the remaining County lands will be subject to the applicable mitigation measures set forth in the EIR to assure impacts remain at less than significant levels.

# I. Water Quality and Resources

# Summary of Findings in the EIR

The Town of Apple Valley and Annexation 2008-001 area are located within the boundaries of the Mojave River Groundwater Basin (the Basin) and are under the jurisdiction of the Colorado River Basin Regional Quality Control Board (CRWQCB). The Basin comprises an approximately 1,400 square mile area along the Mojave River and has an estimated groundwater storage capacity of 5 million acre-feet.

The region is subject to temperature extremes, ranging from 20°F in the winter months to more than 100°F in the summer, with variations based on elevation. Average annual rainfall is approximately 5 inches. The region is also subject to intense seasonal storms.

The Mojave River is the primary natural source of recharge for the Basin; most of the streambed is dry much of the year, except for periods of spring runoff and from flows associated with intense rainstorms. The topographic relief that runs along the Mojave River on the west side of the Town generally divides local drainage.

The EIR determined that the Basin is comprised of several subsurface aquifers, or subareas (known as the Alto, Baja, Centro, Este, and Oeste), and falls within the Mojave Water Agency (MWA) management area. MWA is responsible for managing the long-term reliability of surface and groundwater within its service area, which is approximately 4,900 square miles. MWA is a State Water Project (SWP) contractor and has an SWP water allocation of 75,800 acre-feet per year. The SWP includes 660 miles of aqueduct and conveyance facilities, and delivers SWP water to MWA for storage and distribution.

The Basin was in a condition known as overdraft, wherein groundwater discharge exceeds recharge, resulting in a net reduction in groundwater stored in the aquifer. Modeling data prepared by the U. S. Geological Survey (USGS) indicated that the overdraft condition began in the Centro and Baja subareas in the 1950s, and by 1960 was present in all subareas of the Basin.

The Town of Apple Valley and Annexation 2008-001 area are located near the center of the Alto Subarea of the Mojave River Groundwater Basin. The Alto Subarea consists of water-bearing strata underlying a 35-mile length of the Mojave River. It is recharged by snowmelt from the San Bernardino Mountains via the Mojave River. Due to its proximity to the headwaters of the Mojave River, the subarea has the largest water supply in the Basin. It contains approximately 82,400 acre-feet of water; outflows and losses were estimated at 47,700 acre-feet, yielding an estimated net volume of water of 34,700 acre-feet. An additional 75,800 acre-feet of State Water Project (SWP) entitlements are available to MWA.

The EIR determined that a number of local water purveyors contract with MWA for water to serve the Town and surrounding area. Table 10, extracted from data provided in the EIR, shows the general service area, number of service connections, and capacity of these water purveyors.

Table 10 Local Water Purveyors Serving the Town of Apple Valley General Plan Planning Area

General Flaming Area			
Water Company	Service Area	Number of Service Connections	Capacity
Apple Valley Ranchos Water Company (now known as Liberty Utilities Apple Valley)	Majority of the Town and General Plan planning area	19,000	11 million gallons
Apple Valley Foothill County Water District	2 square miles	180	150,000 gallons
Apple Valley Heights County Water District	2 square miles	290	260,000 gallons
Apple Valley View Mutual Water Company	1 square mile	100	25,000 gallons
County Service Area 64	4 square miles	3,801	2.65 million gallons
Golden State Water Company	Northeastern and southern portions of the Town	2,847	-
Juniper Rivera County Water District	2 square miles	168	150,000 gallons
Mariana Ranchos County Water District	7 square miles	650	900,000 gallons
Rancheritos Mutual Water Company	1.25 square miles	269	-
Thunderbird County Water District	2 square miles	325	410,000 gallons
Navajo Mutual Water Company	-	80	-

The EIR indicated that annual water production was 16,527 acre-feet for Liberty Utilities (formerly Apple Valley Ranchos Water Company (AVRWC) (2007), and 1,205 acre-feet for Golden State Water Company (2005). Water production by both companies has steadily increased over time.

# Regional Water Supply

The EIR indicated that the Town relies on precipitation and runoff from adjacent mountains for groundwater recharge, as well as from imported water. MWA had established a groundwater replenishment program for the Mojave Water Basin, including the Alto Subarea. The purpose of this program was to reduce annual and cumulative groundwater overdraft through artificial recharge to the groundwater basin.

#### 2007 Production

The EIR indicated that water production data (water withdrawals) from AVRWC showed that the water table in the Alto Subarea has steadily declined. In 2007, the annual water production was 5,385 million gallons from the Alto Subarea.

# Imported Water

The EIR indicated that to ensure adequate recharge and to achieve the Court-mandated balance in the Basin, MWA relied on imported water from two primary sources. These include California State Water Project (SWP) water, and "banked" or conjunctive use water from the Metropolitan Water District (MWD). As a State Water Project contractor, MWA imports SWP water for groundwater recharge. MWA had an annual allocation of 75,800 acre-feet, which included 25,000 acre-feet that MWA purchased from Berrenda-Mesa Water District in 1998. MWA uses factors of 69% under 2005 demands to 77% under 2025 conditions to estimate the reliability of SWP deliveries. Based on these factors, MWA expected to receive between 53,800 and 58,400 acre-feet annually, should it request its full entitlement. The average dry year supply was estimated at 43,200 acre-feet/year, and 22,900 acre-feet/year over multiple dry years. Between 1972 and 2001, MWA received approximately 150,000 acre-feet of water from the SWP.

MWA also has an agreement with the MWD that allows MWD to store up to 75,000 acre-feet of water in the Mojave basin. This is referred to as "conjunctive use" or "water banking," in exchange for which MWD is entitled to an equal amount of water in the event of a significant drought.

The EIR indicated that based on year 2010 estimates, MWA estimated that approximately 119,300 acre-feet/year were available through natural supplies and SWP allocations annually (2010 projection). AVRWC estimated that water supply sources in 2005 were 17,818 acre feet, which included its FPA allotment, additional groundwater replacement water purchased from MWA, and purchased water rights. It estimated increased supplies of 29,067 acre-feet per year in 2010, of which 69% would be purchased as replacement groundwater from MWA.

#### Water Conservation

The Town of Apple Valley has adopted a Water Conservation Plan Ordinance (Development Code Chapter 9.75) regulating water use and prohibiting wasteful water use practices, such as excessive runoff of landscape irrigation water and washing driveways and walkways with water. The Ordinance establishes penalties for violation of these regulations. In addition, MWA has established a goal of 10% municipal conservation by 2020. In an effort to meet this goal, development within the Town is to be consistent with the MWA Urban Water Management Plan.

#### Water Demand Projections

The EIR determined that estimated future water service demands at General Plan build out, including Annexations 2008-001 and 2008-002, would be 95,999.8 acre-feet per year.

Table 11
Estimated Future Water Service Demands at General
Plan Build Out

	Water Demand
Area	Ac-ft/Yr
General Plan Build Out including	
annexation lands	95,999.8
Annexation 2008-001 area	6,476.4
Annexation 2008-002 area	1,301.5
Town of Apple Valley	88,221.90

Water Demand Factors used in the EIR:

Residential: 208 GPCPD

Commercial: 1.98 Ac-Ft/Ac/Year Industrial: 1.61 Ac-Ft/Ac/Year Other Uses: 2.88 Ac-Ft/Ac/Year

#### Annexation 2008-001

The EIR stated that Annexation 2008-001 area was not serviced by any of the water purveyors listed in Table 10, above. Water for existing development, which was limited to scattered single-family residential development, was provided by private wells or water delivered by private haulers for storage in privately owned underground storage tanks.

The EIR determined that build out of Annexation 2008-001 could result in the development of approximately 4,236 dwelling units. Based on an average household size of 3.125 persons, Annexation 2008-001 was estimated to have a build out population of 13,238. Table 12, extracted from the EIR, shows estimated water demand within the annexation area.

Table 12
Estimated Water Demand at Build Out of Annexation 2008-001 Area

			Demand
Land Use	Units	Demand Factor	Ac-ft/Yr
	No. of	Gallons Per Capita Per	
	Persons	Day (GPCPD)	
Residential	13,238	208.00	3,082.8
	AC	Ac-Ft/Ac/Year	Ac-ft/Yr
Commercial	773	1.98	1,530.6
Industrial	812	1.61	1,307.4
Other Uses	193	2.88	555.6
		Subtotal Non-Residential:	3,393.6
		TOTAL:	6,476.4

The EIR determined that build out of the Annexation 2008-001 area would contribute to cumulative increases in the demand for domestic water resources. Build out of the General Plan area, including the proposed Annexation 2008-001, would result in significant impacts to water resources, and the EIR included mitigation measures to reduce potential impacts to less than significant levels.

# Analysis of the Proposed 2018-001 Annexation, and the Proposed 2018-001 Annexation Plus Remaining County Lands

The 2018-001 Annexation area is largely undeveloped and contains no water users. Build out of the 2018-001 Annexation area could result in development of up to 247 dwelling units. Since certification of the EIR, average household size in the Town has been reduced slightly, to 2.99 persons per household in 2017. Based on this household size, the 2018-001 Annexation area could have a build out population of approximately 739 persons. In addition to the development contained in the 2018-001 Annexation area, the balance of the lands which would now remain in the County would generate up to 218 single family homes and up to 75,899 square feet of commercial square footage. These land uses are included in Table 13, below, in order to account for all development potential in the area. For the remaining County lands, the household size of 2.99 persons could generate approximately 652 persons.

The water purveyors whose demand factors were used in the EIR have recently updated their water demand factors for residential, commercial, and industrial land uses. To calculate the water demand for the proposed 2018-001 Annexation and remaining County lands, current water demand factors were used, and are shown in Tables 13 and 14, respectively. Due to increased conservation in recent drought years, this estimate is expected to be conservative, but provides a direct correlation between the EIR analysis and the proposed 2018-001 Annexation's impacts.

Table 13
Estimated Water Demand at Build Out of Proposed 2018-001 Annexation Area

Estimated Water Demand at Build Out of 1 Toposed 2010-001 Affication Area			
			Demand
Land Use	Units	Demand Factor	Ac-ft/Yr
	No. of	Gallons Per Capita Per	
	Persons	Day (GPCPD)	
Residential	739	233	193
	AC	Ac-Ft/Ac/Year	Ac-ft/Yr
Commercial	590.31	1.92	1,133.39
Industrial	380.48	0.51	194.04
Other Uses (Street Rights-			
of-Way)	92.2	-	-
		Subtotal Non-Residential:	1,327.43
		TOTAL:	1,520.43

Source:

Residential factor from Liberty Utilities (formerly AVRWC (2010)) based on historical consumption for residential uses.

Commercial factors based on CVWD (2016) factor for Commercial Land Use, assuming 35% return flow.

Industrial factor based on CVWD (2016) factor for Industrial Land Use, based on 35% return flow.

<sup>&</sup>lt;sup>7</sup> "City/County Population and Housing Estimates, 1/1/2017" prepared by the California Department of Finance.

Table 14
Estimated Water Demand at Build Out of Remaining County Lands

			Demand
Land Use	Units	Demand Factor	Ac-ft/Yr
	No. of	Gallons Per Capita Per	
	Persons	Day (GPCPD)	
Residential	652	233	170.8
	AC	Ac-Ft/Ac/Year	Ac-ft/Yr
Commercial	7.92	1.92	15.20
		TOTAL:	186

#### Source:

Residential factor from AVRWC (2010) based on historical consumption for residential uses.

Commercial factors based on CVWD (2016) factor for Commercial Land Use, assuming 35% return flow.

Industrial factor based on CVWD (2016) factor for Industrial Land Use, based on 35% return flow.

The tables above show that an estimated 1,706.43 AFY of water would be consumed at build out of the 2018-001 Annexation area and the remaining County lands, of which approximately 363.8 AFY would be from residential uses and approximately 1,342.63 AFY would be for commercial and industrial development. Compared to Annexation 2008-001, this represents approximately 4,769.97 fewer AFY of water consumed.

The EIR determined that Apple Valley Ranchos Water Company (now known as Liberty Utilities Apple Valley) has sufficient water supplies for its service area through year 2025 under normal and drought conditions. It concluded that sufficient water should be available to serve the entire General Plan planning area, which includes the 2018-001 Annexation area, through year 2025. Because of the significant reduction in water demand as a result of the build out of the 2018-001 Annexation area and the remaining County lands, impacts associated with water resources will be significantly reduced at build out of the current proposal.

In addition, future development in the 2018-001 Annexation area and remaining County lands will be subject to water usage restrictions and all applicable rules and regulations to control water usage and runoff. The annexation area has the same setting related to water resources/quality, including the same hydrologic and flooding history, climate, surface and groundwater background, and soils, as that analyzed in the EIR. During construction and at buildout, urban runoff resulting from storm flows could carry pollutants into the Mojave River and Bell Mountain Wash. To minimize the discharge and transport of pollutants, the Town and County will require future development to control the volume and rate of storm water runoff to prevent any deterioration of water quality, consistent with the standard requirements contained in NPDES permits. It is anticipated that future development in the 2018-001 Annexation area will be connected to the community sewer system. The sewer system will be subject to California Regional Water Quality Control Board (CRWQCB) approval.

# **Summary of Impacts**

The 2018-001 Annexation area plus remaining County lands will facilitate less urban development than what was analyzed in the EIR for Annexation 2008-001, and generate a total water demand of 1,706.43 AFY, which is 4,769.97 AFY less than what was analyzed in the EIR. This will contribute to cumulative impacts on groundwater resources in the region, including a reduction in the amount of potable groundwater in storage to a much lesser degree than previously analyzed. Impacts will be less than those projected in the EIR.

Development within the proposed 2018-001 Annexation, like Annexation 2008-001, will be required to demonstrate that all the future developments would be designed to meet the Town's requirements for water quality and consumption, consistent with the analysis provided in the EIR.

The proposed annexation will not result in new or significantly greater impacts than those analyzed in the EIR. Impacts associated with water resources/quality will be significantly reduced, and are expected to be less than significant with the implementation of the mitigation measures included in the EIR.

# J. Land Use, Population, and Housing

# Summary of Findings in the EIR

The Apple Valley General Plan that was in effect at the time the 2009 General Plan was proposed allocated land uses for all incorporated areas, resulting in a total of up to 50,053 residential units, 28,608,875 square feet of commercial land uses, and 37,848,814 square feet of industrial land uses at build out within Town limits. Build out of that General Plan would have resulted in a build out population of 152,813 within the Town limits, based on a 2008 Department of Finance household size of 3.053 persons per household.

The EIR determined that Apple Valley has developed most densely along major roadways in the Town (i.e. State Highway 18 and Bear Valley Road). Existing development became gradually less dense north of Highway 18 to Waalew Road, north of which existing development was scattered and relatively limited. The area surrounding the airport was comprised of lands that had been developed to a limited extent for industrial uses. The airport is centrally located within the approved North Apple Valley Industrial Specific Plan (NAVISP) area that provides for the industrial and commercial development of these lands.

Commercial centers in the Town include the Village commercial area along State Highway 18 between Navajo Road and Central Road; retail and office uses between Rancherias Road and Dale Evans Parkway, north to Thunderbird Road along Highway 18, in the vicinity of Town Hall and other public facilities associated with the Civic Center complex; and further west along Highway 18, near its intersection with Corwin Road, St. Mary Medical Center and associated medical offices and other commercial uses occur. The most recent and substantial commercial development in Town had occurred on Bear Valley Road.

Residential development in Apple Valley is concentrated in the southern and central portions of the Town, generally south of Waalew Road. Residential densities in these areas range from very low to high densities (1 dwelling unit per 5 acres or more, to 20 dwelling units per acre). The majority of single-family development in the Town occurs on lots of between 0.5 and 2.5 acres.

The EIR determined that the Town has numerous public and private open space areas, including parks and recreational facilities operated by the Town and parks associated with Apple Valley Unified School District (AVUSD) schools. Other recreational and open spaces include golf courses, and natural open space associated with the Mojave River, Apple Valley Dry Lake, Bell Mountain, and other notable landforms. Institutional development and public facilities are located amidst residential and other types of development.

# Demographic Information

The EIR analyzed U.S. Census data and determined that the population in the Town of Apple Valley grew from 46,079 in 1990 to 54,239 by 2000, an increase of approximately 17.7%. At the time the EIR was prepared (2008), the population was 70,092.

In 1990, the median age in Apple Valley was 30.8 years; by 2000, it had increased to 35.4 years. As of 2008, there were 24,925 housing units in the Town; this had increased from year 2000, when there were 20,161 housing units. There was an average of 2.903 persons per household in 2000; by 2008, this average had increased to 3.053.

The median household income in Apple Valley in 2000 was \$40,421, and had risen by approximately 34.4% in 2008, to \$54,323.

The median home price for existing homes in Apple Valley was \$338,000 in third quarter 2007, and had fallen to \$220,000 by third quarter 2008. At the time the EIR was prepared, home ownership was considered affordable to moderate income households in Apple Valley. However, new home prices exceeded those of the overall County of San Bernardino for the same period.

## General Plan Build Out Impacts

The General Plan planning area analyzed in the EIR included 46,948.3 acres in the Town limits and 3,579.7 acres in two annexation areas. The proposed land use plan did not significantly change existing development patterns or land use designations within the Town limits. Within the annexation areas, it proposed a mix of residential (30.5%), commercial (18.9%), industrial (45.1%) and other (5.5%) land uses. At build out, the land use plan would have increased the number of residential units to 63,749 and increased the population to 194,931 when the Town limits and the two annexation areas were combined. It would have also increased the amount of commercial and industrial development. However, it would not have significantly changed the existing character of the Town because the same policies and development standards that had been applied to existing development were anticipated to be applied to future development, and impacts were determined to be less than significant within the Town limits.

#### Annexation 2008-001

According to the EIR, there were approximately 2,774.6 acres within the Annexation 2008-001 area. Of these, approximately 2,565.9 acres (92%) were vacant and undeveloped desert lands. The remaining approximately 8% were sparsely developed with single-family residences and paved and unpaved roadways. Lands in this annexation area were designated and zoned for Rural Living, Rural Living-5 (minimum 5-acre lots) and Neighborhood Commercial under the County General Plan.

The land use plan in the County General Plan for Annexation 2008-001 included almost exclusively low intensity residential development, with only a small (7.9 acre) area of commercially designated land in the northeast corner of the area. At build out, the annexation area would have included 2,067 residential units and 53,192 square feet of commercial development, as shown in Table 15.

Table 15
Statistical Summary of Land Uses
County General Plan – Annexation 2008-001

Land Use Designation	Developed	Vacant	Total			
<b>Residential Designations</b>				<b>Existing Units</b>	<b>Potential Units</b>	<b>Total Units</b>
Rural Living	151.6	1,982.4	2,134.0		1,982	1,982
Rural Living, 5 AC.	14.2	425.5	439.7		85	85
			Total	-	2,067	2,067
<b>Commercial Designations</b>				<b>Existing SF</b>	Potential SF	Total SF
Neighborhood Commercial		7.9	7.9	-	53,192	53,192
Other Designations						
Street Rights-of-Way	42.8	150.1	192.9			
Grand Total	208.7	2.565.9	2.7746			

The EIR analyzed the changes in land use designation proposed for Annexation 2008-001, which would have resulted in up to 4,236 residential units, 7,135,369 square feet of commercial development, and 7,782,275 square feet of industrial development at build out, as shown in Table 16.

Existing

**Potential** 

Table 16
Statistical Summary of Land Uses
Town of Apple Valley General Plan – Annexation 2008-001

Land Use Designation	Developed	Vacant	Total	Units	Units	<b>Total Units</b>
-0		•	•	•		
<b>Residential Designations</b>						
Estate Residential	55.7	722.3	778.0		722	722
Medium Density Residential	41.4	177.3	218.7		2,659	2,659
Mixed Use	0.0	94.8	94.9		854	854
			1,091.6	-	4,236	4,236
<b>Commercial Designations</b>				<b>Existing SF</b>	<b>Potential SF</b>	Total SF
Mixed Use	0.0	94.9	94.9	-	636,612	636,612
General Commercial	11.7	40.8	52.6	112,202	391,415	503,617
Regional Commercial	7.2	435.3	442.5	69,069	4,171,433	4,240,502
Office Professional	0.0	183.1	183.1	-	1,754,639	1,754,639
			773.0	181,271	6,954,099	7,135,369
Industrial Designations				Existing SF	Potential SF	Total SF
Planned Industrial	49.72	762.4	812.1	476,523	7,305,753	7,782,275
Other Designations						

192.9

2,774.6

42.8

208.7

Street Rights-of-Way

**Grand Total** 

150.1

2,565.9

The EIR determined that, as development occurred in Annexation 2008-001, the rural character of existing scattered residential development and open space would be changed significantly by the proposed land use designations. Impacts were expected to be reduced, to some extent, by implementation of General Plan policies and programs designed to provide buffers between residential and commercial or industrial land uses. The Town's Development Code also included such standards, which would require any development to appropriately protect surrounding residential development. It was determined that development of the area would not displace a substantial number of homes or residents. Development in the annexation area was not expected to occur in the short-term due to a lack of available infrastructure and economic constraints. Nonetheless, in the mid- to long-term, development would occur in this area, and impacts resulting from proposed land use changes could not be mitigated to less than significant levels. As a result, the anticipated changes in land use designations within Annexation 2008-001 were determined to be significant and unavoidable.

# Analysis of the Proposed 2018-001 Annexation, and the 2018-001 Annexation Plus Remaining County Lands

# **Demographics**

Based on U.S. Census Bureau data, the population in the Town of Apple Valley grew from 69,135 in 2010 to 72,553 by 2016, an increase of approximately 4.95%.8

In 2010, the median age in Apple Valley was 35.2 years, whereas in 2015 it had increased to 37.5 years. As of 2015, there were 26,436 housing units in the Town; this figure had increased from year 2010, when there were 24,683 housing units. There was an average of 3.43 persons per household in 2010; by 2017 this average had decreased to 2.99.9

The median household income in Apple Valley in 2010 was \$50,066, which had declined by approximately 4.25% in 2015, to \$47,938. The median value of new homes in Apple Valley also dropped from \$262,100 in 2010 to \$179,600 in 2015.<sup>10</sup>

# Proposed Land Use Plan

The proposed 2018-001 Annexation land use plan encompasses 1,304 acres, and includes residential, commercial and industrial land uses. Table 17 shows the proposed land uses, acreages, and development potential within the annexation area. If the area were to build out under the proposed land use designations, a total of 247 residential units, 5,657,058 square feet of commercial space, and 3,646,216 square feet of industrial space would be developed. In addition, approximately 86.4 acres would be improved as street right-of-way.

<sup>&</sup>lt;sup>8</sup> U.S. Census Bureau; https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF, Accessed August

<sup>9</sup> California Department of Finance, 2017.

<sup>&</sup>lt;sup>10</sup> U.S. Census Bureau; https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF, Accessed August 2017.

Table 17
Summary of 2018-001 Annexation Land Use Plan
Developed Vacant Total

Land Use Designation	Developed	Vacant	Total			
<b>Residential Designations</b>				<b>Existing Units</b>	<b>Potential Units</b>	Total Units
Estate Residential	0.0	246.86	246.86		247	247
Street Rights-of-Way*	0.0	16.1	16.1			
Total			263			
<b>Commercial Designations</b>				Existing SF	Potential SF	Total SF
General Commercial	0.0	13.99	13.99	-	134,069	134,069
Street Rights-of-Way*		1.01	1.01			
Total			15			
Regional Commercial	0.0	381.4	381.4	-	3,655,032	3,655,032
Street Rights-of-Way*		27.6	27.6			
Total			409			
Office Professional	0.0	194.92	194.92	-	1,867,957	1,867,957
Street Rights-of-Way*		14.1	14.1			
Total			209		5,657,059	5,657,059
<b>Industrial Designations</b>				Existing SF	Potential SF	Total SF
Planned Industrial	0.0	461.61	380.48	-	3,646,216	3,646,216
Street Rights-of-Way*		33.39	27.52			
Total			408			
Other Designations						
Street Rights-of-Way*	0.0	86.4	86.4			
Grand Total	0.0		1,304.0		3,646,216	9,303,275

Comparison of the 2018-001 Annexation and Annexation 2008-001 Build Out Potential As shown in Table 16, the 2018-001 Annexation area covers approximately 1,304 acres, or 53% of the area covered by Annexation 2008-001. The balance of these lands (1,470 acres) would remain under County jurisdiction, and would result in 1,337.8 acres of residential land with a build out potential of 218 units, and 7.92 acres of commercial land with a build out potential of 75,899 square feet.

The 2018-001 Annexation and remaining County land, combined, would result in a total of 1,585 acres of residential lands with 465 residential units, a reduction of 3,771 units compared to build out under the General Plan land use plan; a total of 598.2 acres of commercial land with 5,732,958 square feet of commercial space, reduction of 1,402,411 square feet compared to build out under the General Plan land use plan; and a total of 380.48 acres of industrial land with 3,646,216 square feet of industrial space, reduction of 4,136,059 square feet compared to build out under the General Plan land use plan. Finally, as shown in Table 18, the 2018-001 Annexation would result in a substantial decrease in total population within the area, when compared to the build out population of Annexation 2008-001 due to the decrease in residential units.

Table 18 Comparison of Potential Build Out Population Annexation 2008-001 vs. 2018-001 Annexation

	Number of Dwelling	Average household	Estimated Build Out
	Units	size	Population
Annexation 2008-001	4,236	3.125	13,238
2018-001 Annexation:			
2018-001 Annexation area	247	2.99*	739
Remaining County lands	218	2.99*	652
	2018-001 A	nnexation Total:	1,391
		Difference	- 11,847 *
* Based on updated (2017) average household size			

The 2018-001 Annexation represents a significant decrease in overall development intensity, and in potential land use impacts when compared to those analyzed in the EIR. Further, the maintenance of existing very low intensity residential land uses on 1,337.8 acres of land that would remain in the County would significantly reduce the potential for significant change in the character of the area. Lands included in the 2018-001 Annexation primarily about the Interstate 15 right of way, and are better suited for higher intensity development. These lands will also provide a buffer to the more rural land uses that will develop under County regulations. Therefore, the implementation of the 2018-001 Annexation will significantly reduce land use, housing, and population impacts compared to the Annexation 2008-001 impacts described in the EIR.

# Other Land Use and Planning Impacts

The 2018-001 Annexation area is undeveloped, and no established communities are located within the area that could be physically divided by future development. Lands remaining in the County represent the east half of Annexation 2008-001, and they will continue to develop over time in a rural character which will allow the development of neighborhoods and the establishment of a community. Therefore, no impacts related to the physical division of an established community would result from the 2018-001 Annexation.

As discussed in the EIR, implementation of the 2018-001 Annexation would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, the Town General Plan, Town Municipal Code, County General Plan, and County Development Code) adopted for the purpose of avoiding or mitigating an environmental effect, insofar as development would be controlled by each jurisdiction in a manner consistent with its policies and standards.

The 2018-001 Annexation would have no potential to conflict with a Habitat Conservation Plan or Natural Community Conservation Plan, since the project site is not located within or adjacent to a designated reserve area. Furthermore, the lands within the 2018-001 Annexation will be subject to the requirements of the MSHCP, when implemented, including the payment of development impact fees and the implementation of its standards. As such, no impact would occur, and implementation of the 2018-001 Annexation would not result in any new impacts or increase the severity of a previously identified significant impact as analyzed in the EIR.

## **Summary of Impacts**

#### Land Use:

Compared to Annexation 2008-001, impacts will be lesser than what was analyzed in the EIR due to a decrease in annexation acreage and development intensity. Lands remaining in the County will retain the rural character of the area and will not develop at the intensities previously considered in the EIR. The lands within the 2018-001 Annexation area will develop at the intensities considered in the EIR and, at build out, will constitute a substantial change in character compared to existing conditions. Although the 2018-001 Annexation will substantially decrease land use impacts, the impacts at build out will remain significant, as they were in the EIR.

#### Population:

As discussed above, the 247 residential units estimated at build out of the 2018-001 Annexation would generate a population of approximately 739 persons within the annexation area. The 218 residential units estimated at build out of the remaining County lands would generate a population of approximately 652 persons. These two areas would result in a combined estimated population of 1,391 at build out. Estimates are based on the 2017 average household size of 2.99 persons. Impacts will be less than that projected for the Annexation 2008-001 (13,238), resulting in a reduction in build out population of 11,847 persons.

## Housing:

Implementation of the 2018-001 Annexation will result in the development of up to 247 residential units in the Annexation 2018-001 area and up to 218 residential units on the remaining County lands. This decreases the number of residential units by 3,771, a substantial reduction from what was analyzed for Annexation 2008-001 in the EIR. However, housing planned within Town limits and in the annexation area is sufficient to meet the Town's long term anticipated growth, as determined by the Southern California Association of Governments, which anticipates a need for 34,800 housing units in 2040.<sup>11</sup>

<sup>&</sup>lt;sup>11</sup> 2016-2040 RTP STS, Demographics and Growth Forecast, Southern California Association of Governments, April 2016.

#### K. Mineral Resources

# Summary of Findings in the EIR

The EIR determined that the mineral resources located within the Town of Apple Valley are found primarily along or near the Mojave River or in the surrounding mountains, and include sand, gravel, and stone deposits that are suitable as sources of concrete aggregate. The Town has designated 452.5 acres for mineral resources land use. Of this, approximately 111.56 acres were developed for mining and processing of aggregate materials, and the remaining 340.95 acres were designated for the use and production of mineral resources. The EIR stated that the mining activities may be incompatible with surrounding land uses, as dust, noise, and heavy truck traffic may create conflicts with residential and commercial uses. The designation of mineral resources land use therefore has some impact on the potential uses of adjacent lands, and development proposals could be submitted to the Town that may generate land use conflicts with aggregate and limestone quarries. However, thoughtful application of the Town's land use policies will reduce potential impacts from adjacent conflicting land uses to less than significant levels.

# Annexation 2008-001

The EIR determined that impacts from mineral resource operations would impact the Annexation 2008-001 area to the same extent they impact other northern parts of the planning area. Land use designations within the annexation area have been determined to be compatible with mineral resource operations. Implementation of the Town's policies and standards concerning effective buffering, maintenance of air quality, and control of noise and light emissions will reduce potential impacts in the annexation area to less than significant levels.

The EIR included a number of mitigation measures to ensure the reduction of potential impacts resulting from mineral resource extraction to acceptable levels.

# Analysis of the Proposed 2018-001 Annexation

The proposed 2018-001 Annexation area is designated as MRZ 3a, defined as "areas containing known mineral deposits of undetermined significance. Further exploration work within these areas could result in the reclassification of specific localities into MRZ-2a or MRZ-2b categories." No known State-designated mineral resource areas have been identified within the annexation area or surrounding areas. Neither Annexation 2008-001 nor the 2018-001 Annexation propose heavy industrial uses or mineral development activities. Further, implementation of the 2018-001 Annexation would not impede the potential for direct use or future exploration of mineral resources.

In the General Plan Land Use Map, the 2018-001 Annexation area is designated for residential, commercial, and light industrial development. Build out of the 2018-001 Annexation area would result in a lesser number of residential, commercial, and industrial units and square footage as compared to Annexation 2008-001. The development of the proposed annexation area will be in accordance with the requirements of the General Plan, Town Development Code, and other applicable regulations.

There will be no impact of the 2018-001 Annexation on mineral resources. However, mineral resource operations in the surrounding areas could generate dust, noise, and heavy truck traffic that impact the 2018-001 Annexation. Implementation of the Town's policies and standards concerning effective buffering, maintenance of air quality, and control of noise and light emissions will reduce potential impacts in the annexation area to less than significant levels.

Therefore, like Annexation 2008-001, the new annexation would result in less than significant impacts regarding mineral resources. Overall, implementation of the 2018-001 Annexation would not result in any new impacts or increase the severity of a previously identified significant impact as previously analyzed in the Certified EIR.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

As discussed earlier, the remaining County lands are designated for residential and commercial development. This area is also designated as MRZ 3a. No known State- designated mineral resource areas have been identified within the remaining County land. Neither the 2018-001 Annexation nor the remaining County land incorporate heavy industrial uses or propose mineral development activities. Therefore, like the 2018-001 Annexation, the development of the remaining County lands would result in less than significant impacts regarding mineral resources.

Future development of the remaining County lands would be required to comply with all applicable County policies and regulations regarding proximity to mineral resource activities.

Overall, development of the 2018-001 Annexation plus the remaining County lands would not result in any new impacts or increase the severity of a previously identified significant impact previously analyzed in the EIR.

## **Summary of Impacts**

Build out of the 2018-001 Annexation would result in a reduction of land disturbance compared to Annexation 2008-001. Impacts would be less than those identified in the EIR, and less than significant overall, and implementation of the mitigation measures provided in the EIR will reduce impacts even further. The project would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects. Buildout of the Proposed 2018-001 Annexation plus the remaining County lands would result in similar impacts to those disclosed in the EIR for Annexation 2008-001.

#### L. Noise

# Summary of Findings in the EIR

The EIR determined that the Town of Apple Valley generally enjoys a quiet noise environment. The community noise environment is dominated primarily by motor vehicle traffic on highways and major arterials, including U.S. Interstate 15, which forms a portion of the Town's northwest boundary and the westerly boundary of both Annexation 2008-001 and the 2018-001 Annexation. Other noise generators in the local environment include operations associated with general aviation aircraft at the Apple Valley Airport in the northeast portion of the General Plan planning area, and rail lines that serve local and regional mineral extraction operations and have a limited impact on portions of the planning area to the north, south, and west.

There are a variety of noise sensitive land uses throughout the General Plan planning area, including but not limited to schools, hospitals, rest homes, long-term care facilities, residential uses, places of worship, libraries, and passive recreation areas. Potential land use incompatibilities related to noise occur when residential areas or other sensitive receptors are located in proximity to industrial and commercial uses.

# Noise Level Increases Over Existing Conditions

Future noise contours along roadways in the General Plan area were modeled to ascertain the extent of future noise impacts associated with General Plan build out. The build out of the General Plan was expected to result in increases in noise levels of up to 16.3 dBA CNEL over existing conditions. Increases in noise levels were expected to be perceptible to land uses adjacent to 44 roadway segments in the planning area.

# Impacts from Proposed Truck and Bus Routes

The EIR determined that the primary through truck routes would continue to be located along major roads, including Interstate 15, Bear Valley Road, State Route 18, Central Road, Deep Creek Road south of Bear Valley Road, and along the future High Desert Corridor. Additional truck traffic along these roadways was expected to increase noise impacts to adjacent development, which along some roadway segments includes sensitive receptors such as residential development, schools, the hospital, and others. Mitigation measures were set forth in the EIR to address noise impacts along truck routes.

Future bus routes were expected to provide for new and expanded service along major roadways, such as Central Road, Bear Valley Road, Kiowa Road and others in the intermediate term, and along Apple Valley Road, Corwin Road, and other roadways in the central and northern portions of the planning area over the long term. Impacts were expected to be at least partially off-set by reductions in other vehicular traffic associated with increased use of public transportation. The Town was to continue to monitor noise impacts associated with expanded and additional bus routes and bus stops where these were planned near sensitive receptors. Mitigation measures were set forth in the EIR to address these issues.

# Impacts from Railroad Noise

The EIR determined that the proposed General Plan and annexations would not result in changes to operations along existing freight rail lines in the planning area. However, it was assumed that freight train traffic would double over existing conditions, and that noise generated by trains would occur more often compared to existing conditions.

# Impact from Airport Operations

The EIR determined that the County of San Bernardino planned to expand the Apple Valley Airport into a hub to better serve industrial and commercial development in and adjacent to the North Apple Valley Industrial Specific Plan area, in which the airport is located. At the time the EIR was prepared, the County had recently approved the construction of airport upgrades, including 18 new hangars, and improvements to the terminal and taxiways to accommodate larger corporate aircraft. The EIR determined that no significant impacts were anticipated to residential development or other land uses in the vicinity.

#### Construction Noise

The EIR determined that during the construction of projects leading to General Plan build out, site grading and preparation would generate the loudest noise levels, beyond the level of comfort to the human ear. Construction noise would be generally short-term and could be mitigated to acceptable levels by adherence to the noise standards of the Municipal Code and a variety of other mitigation measures that were provided in the EIR.

## Annexation 2008-001

The EIR determined that, at build out, Annexation 2008-001 would include up to 4,236 residential units, 7,135,369 square feet of commercial development, and 7,782,275 square feet of industrial development. Buildout of Annexation 2008-001 represented substantial increases over existing development and had the potential to result in adverse impacts to the existing noise environment. Noise impacts were expected to be primarily associated with temporary construction noises and gradually increasing traffic volumes as this area developed. Site-specific design features that mitigate noise impacts would need to be implemented to limit noise impacts to acceptable levels. All noise associated with new development in the annexation area would be subject to the Town's noise ordinance and other mitigation measures described in the EIR. With the implementation of mitigation measures, build out of Annexation 2008-001 would result in less than significant impacts associated with noise.

# Summary of Impacts

Overall, the EIR determined that the proposed General Plan and annexations would result in increases to community noise levels from increased urbanization and associated activities, including short-term construction noise, and increases in motor vehicle traffic and other modes of transportation. Site-specific impacts would be mitigated on a project-by-project basis at the time such development was proposed. The EIR included a number of mitigation measures to ensure the reduction of potential noise impacts to acceptable levels.

# Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation will result in the introduction of urban uses on lands that are currently vacant, and will therefore increase noise levels in and around the area. Primary noise sources will include motor vehicle traffic, noise from refrigeration and heating/ventilation/air conditioning (HVAC) units, landscape equipment, and construction machinery. The 2018-001 Annexation area is located within the boundaries of Annexation 2008-001, for which noise impacts were previously analyzed as part of the EIR. Compared to Annexation 2008-001, the 2018-001 annexation decreases potential noise impacts in the area by reducing the overall development potential of the annexation area. The 2018-001 Annexation proposes land use categories that are similar to those proposed under Annexation 2008-001, and does not propose any land uses that would substantially alter the noise environment compared to Annexation 2008-001, such as heavy industrial operations or high-speed transportation corridors.

As with Annexation 2008-001, land uses adjacent to Interstate 15 and other major roadways will be subject to higher noise levels from traffic on these roadways. However, as with Annexation 2008-001, the land uses proposed along the Interstate 15 corridor will not include sensitive receptors, as these lands are designated for less sensitive commercial and light industrial uses. The southeastern portion of the annexation area, which would develop in residential land uses, is well east of the Interstate 15 corridor, and will be buffered from noise by intervening commercial and light industrial buildings and projects. Lands to the east of the 2018-001 Annexation area, which will remain in the County and will develop at very low residential densities, will not result in any noise impacts to the annexation area. Site-specific noise analyses will be required on a project-by-project basis to identify effective noise reduction measures, as needed. Structures will be required to meet the most recent version of the California Building Code noise insulation standards. Adherence to the noise standards set forth in the Municipal Code and other regulations, as well as implementation of the mitigation measures provided in the EIR, will reduce potential noise impacts to less than significant levels. Noise impacts to these areas, therefore, will be similar to those considered in the EIR, and will not result in any greater impacts than those analyzed in the EIR.

Like Annexation 2008-001, construction activities associated with build out of Annexation 2018-001 would be required to comply with the City's allowable construction hours, and would also be temporary in nature. Since temporary construction noise is exempt from the City's noise ordinance requirements, construction-related noise would result in less than significant noise impacts. The same mitigation measures provided in the EIR would be required as part of any future development to ensure that the noise impacts associated with construction activities would be reduced to the maximum extent feasible. Therefore, construction-related noise under Annexation 2018-001 would not result in any new impacts or increase the severity of a previously identified significant impact previously analyzed in the EIR.

Post-construction activities would include residential, commercial, and industrial operations that would not be expected to generate long-term or excessive groundborne noise or vibration. Groundborne noise or vibration under Annexation 2018-001 is expected to be less than

significant and less than that of Annexation 2008-01 due to reduced overall acreage and development potential. Long-term operations would not result in any new impacts or increase the severity of a previously identified significant impact as previously analyzed in the EIR.

The 2018-001 Annexation area is not located in the vicinity of a private airstrip. Given the Annexation area's distance from the Apple Valley Airport and its location outside of the airport's 60-dBA noise contour, adverse aircraft noise impacts are not expected to occur. Like Annexation 2008-001, the 2018-001 Annexation would not result in the exposure of people residing or working in the area to excessive airport-related noise levels.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The remaining County land is partially developed and would result in residential and commercial development, which will generate moderate noise levels. Future development of the remaining County land would be required to comply with all applicable rules and regulations related to noise, including federal and State laws, and County policies and regulations relating to noise impacts. The development of low density residential lands in this area will generate noise levels lower than those analyzed in the EIR because low intensity residential uses would occur.

Overall, build out of the 2018-001 Annexation will result in impacts that are lower than what was analyzed for Annexation 2008-001 in the EIR.

## M. Public Services and Facilities

# Summary of Findings in the EIR

#### Service Providers

The EIR determined that the General Plan planning area is located within the service boundaries of a wide range of public services and facilities providers, which are listed below.

- **Public Schools:** Apple Valley Unified School District
- Library Services: San Bernardino County Library System
- Law Enforcement: Apple Valley Police Department/San Bernardino County Sheriff's Department
- **Fire Protection:** Apple Valley Fire Protection District
- **Health Services:** St. Mary Medical Center
- Electricity: Southern California Edison
- Natural Gas: Southwest Gas Company
- Telephone Services, Internet and Cable Television: Verizon, Charter Communications
- **Domestic Water:** Apple Valley Ranchos Water Company, Golden State Water Company, various small water purveyors
- Wastewater Collection/Treatment: Town of Apple Valley Public Works Division, Victor Valley Wastewater Reclamation Authority
- Solid Waste Management: Burrtec Waste Industries

# **Schools**

The EIR determined that the Apple Valley Unified School District (AVUSD) operates 18 schools within its District, including 9 elementary, 3 middle, and 2 high schools, as well as one continuation school in the General Plan planning area. In addition, at the time the EIR was certified, AVUSD was operating an alternative education center offering adult education, a magnet school, and a charter school. Table 18, reproduced from the EIR, identifies the AVUSD schools, locations, grades served, 2007-08 school enrollment, and total capacity.

Table 19
Apple Valley Unified School District Schools

School	Location	Grades	Enrollment	Capacity	
		Served	(2007-08)		
Elementary					
Desert Knolls	18213 Symeron Drive	K-5	529	795	
Mariana	10601 Manhasset Rd.	K-5	609	702	
Mojave Mesa	15552 Wichita Rd.	K-5	607	655	
Rancho Verde	14334 Pioneer Road	K-5	716	725	
Rio Vista	13590 Havasu Road	K-5	693	795	
Sandia	21331 Sandia Rd.	K-5	757	795	
Sitting Bull	19355 Sitting Bull Rd.	K-5	569	761	
Sycamore Rocks	23450 South Road	K-5,	557	725	
		Visual/Perf. Arts			
Yucca Loma	21351 Yucca Loma Road	K-5	669	865	
Middle					
Apple Valley	12555 Navajo Road	6-8	921	1,664	
Sitting Bull	19445 Sitting Bull Road	6-8, Technology	1,267	1,231	
Vista Campana	20700 Thunderbird Road	6-8	876	1,408	
High Schools					
Apple Valley	11837 Navajo Road	9-12	1,978	2,813	
Granite Hills	22900 Esaws Road	9-12	2,140	2,494	
Willow Park	21950 Nisqually Road	9-12	147	406	
Other	1				
Alternative Education Center	13063 Pawnee Road	K-12	498	N/A <sup>1</sup>	
Academy for Academic	20702 Thunderbird Road	K-2	120	120	
Excellence					
(LewisCenter; Charter)					
Academy for Academic	17500 Mana Road	3-12	855	880	
Excellence (Lewis					
Center; Charter)					
Vanguard Preparatory (Magnet)	12951 Mesquite Road	K-8	1,192	1,086	
Adult Education			39	N/A <sup>3</sup>	
	L Canaral Plan and Annavations 20	000 001 0 2000 0			

**Source:** Town of Apple Valley General Plan and Annexations 2008-001 & 2008-002/Environmental Impact Report (Table III-52).

The EIR described that the District completed an update to its Master Plan in 2007, which planned for facilities over a six-year period, through 2012. It was also determined that the District generally purchases property and plans for new facilities in proximity to areas where the Town has approved Tract maps.

The EIR explained that Assembly Bill 2926, passed by the California State Legislature in 1986, allows school districts to assess development fees for construction and reconstruction of public schools. At the time, the EIR was prepared, the AVUSD development fees were as follows:

- Residential (new construction): \$3.60 per square foot; and
- Commercial (all): \$0.47 per square foot

# Private Schools and Higher Education Institutions

The EIR determined that there were several private schools in the Town, including Apple Valley Child Care Center, Apple Valley Christian School, Valley Christian Schools, Apple Valley Private School Learning Center, Apple Valley Village School, High Desert Haven, St. Timothy's Episcopal School, St. Mary's Regional Catholic School, and Mojave Christian.

Higher education institutions serving residents of the Town and the region included Victor Valley College in the City of Victorville, and Redlands University. In addition to its primary campus in Redlands, the University offered evening courses at the AVUSD Academy for Academic Excellence (AAE) school site on Mana Road in Apple Valley.

#### Other Educational Initiatives

At the time, the EIR was certified, the AAE and Redlands University were exploring the potential for future development of a four-year college or university at the campus. The college was envisioned as a partnership between several colleges and universities in the region and would focus on providing teacher education and credentialing.

The EIR determined that, at build out, the proposed General Plan and annexation areas were expected to result in the construction of approximately 63,749 dwelling units. Based on AVUSD student generation factors by grade level and type of residential development, the build out enrollment was projected to be 29,899 (Table III-53 in the EIR).

## Annexation 2008-001

The EIR determined that the AVUSD District boundaries included the Annexation 2008-001 area, and AVUSD would provide public education services and facilities to that area. Build out of the annexation area was expected to result in development of 4,236 dwelling units, resulting in 1,598 buildout enrollments.

The EIR stated that the since new development would occur over time, student populations would also be expected to increase gradually, and were therefore not expected to significantly impact AVUSD schools. AVUSD facilities planning would provide for new school sites as population within the District increased, based on tract map approvals within the Town. Further, AVUSD would continue to receive developer impact fees for residential, commercial, and industrial development. While these measures were expected to minimize impacts to AVUSD schools, mitigation measures were set forth in the EIR to ensure that any potential adverse effects to public schools were reduced even further.

# Analysis of the Proposed 2018-001 Annexation

Build out of the 2018-001 Annexation area has the potential to result in 247 single family residential units. Based on the same student generation rates used in the EIR, this would result in approximately 59 new enrollments in elementary schools, 35 new enrollments in middle schools, and 45 new enrollments in high schools in the area, for a total of 139 new students. Compared to Annexation 2008-001, this represents a significant decrease in potential residential development and associated build out enrollments. At build out, the 2018-001 annexation is expected to generate fewer students and would not create new impacts associated with public services and facilities. Impacts would be less than those identified in the Certified EIR.

The latest AVUSD development fees (2018) are given below:

- Residential (new construction): \$3.48 per square foot (for single family residents); : \$0.56 per square foot (senior single family residents);
- Commercial (all): \$0.56 per square foot

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Build out of the 2018-001 Annexation area plus the remaining County lands has the potential to result in 465 residential units, and based on the student generation rates provided in the EIR, approximately 111 new elementary school enrollments, 65 middle school enrollments, and 84 high school enrollments, for a total of 260 new students. Compared to Annexation 2008-001, this represents an 84% decrease in potential enrollments. At build out, the new annexation, including the remaining County lands, will generate substantially fewer students, and would result in lesser impacts to schools. The 2018-001 Annexation would not create any new impacts associated with schools, and such impacts would be less than those identified in the EIR.

## Libraries

The EIR determined that the Newton T. Bass Apple Valley Library, located adjacent to Town Hall off of Dale Evans Parkway, was a 19,142 square foot facility that provided Apple Valley residents access to over 20,000 hardcopy books as well as an online database containing electronic periodicals, magazines, and encyclopedias. The library offered a number of programs and community events, including resources for illiterate and visually impaired residents, the LITE program for younger children, the Kids and Crafts program for children ages 5 to 12, and programs geared towards teens. Adult programs included the free literacy program, book and poetry clubs, and volunteer opportunities.

At the time EIR was certified, the estimated Town population was 70,092, for which the public library in Apple Valley was providing approximately 0.27 square feet of library space per capita. The County Plan indicated that additional library funding would be needed to meet a standard of 0.5 to 0.6 square feet per capita, and addressed expansion of the library in Apple Valley to provide facilities consistent with the national average, approximately 0.45 square feet per capita.

The EIR determined that the library facilities would require expansion in the future to meet future demand as the Town's population increased. The Town and the County of San Bernardino were to continue to monitor library circulation data, and a plan for expansion of services and facilities would also be needed. At the time EIR was certified, there was no indication that the library in Apple Valley was over-utilized or unable to meet the demand generated by residents. Impacts to library services were found to be less than significant with the implementation of mitigation measures.

#### Annexation 2008-001

The EIR determined that at build out, Annexation 2008-001 was expected to have a population of 13,238. Based on the standard of 0.45 square feet per capita that is indicated in the County's Master Plan, the build out population of the annexation area would be adequately served by approximately 5,957 square feet of library facilities.

The EIR also determined that development facilitated by the General Plan and Annexation 2008-001 was expected to occur gradually, which would not result in immediate impacts to County library services.

Overall, without mitigation, impacts associated with build out of the proposed General Plan and Annexation 2008-001 were expected to be significant. Therefore, mitigation measures were set forth in the EIR to ensure that any potential adverse effects to libraries would be reduced to less than significant levels.

# Analysis of the Proposed 2018-001 Annexation

At build out, the new annexation is expected to generate a smaller population (i.e. 739 persons), which in turn would result in a need for 333 square feet of library space. This demand would be less than significant, and would not create any new impacts associated with library services. Impacts would be less than those identified in the EIR.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

At build out, the 2018-001 Annexation area and the remaining County lands are expected to generate a population of up to 1,391, and an associated demand for library space of approximately 626 square feet. This demand would be less than that identified in the EIR, because of the reduction in population resulting from the current annexation proposal. The build out of the 2018-001 Annexation and remaining County lands would not create any new impacts associated with libraries, and any such impacts would be less than those identified in the EIR.

# Law Enforcement

The EIR determined that the Town of Apple Valley contracts with the San Bernardino County Sheriff's Department for law enforcement services within the Town limits. At the time EIR was certified, the Annexation 2008-001 area was also under the jurisdiction of the Sheriff's Department.

The Apple Valley Police Department was located in the Apple Valley Civic Center at 14931 Dale Evans Parkway. There was also an un-staffed substation used for report writing and other administrative tasks located at 21989 Outer State Highway 18. Staffing at the Apple Valley Police Department consisted of 49 sworn personnel and 14 civilian/general employees. The Department had set a target ratio of 1 deputy per 1,500 residents.

The EIR determined that the implementation of the General Plan and Annexation 2008-001 was expected to result in a total build out population of approximately 194,931 residents. To maintain the target ratio of 1 deputy per 1,500 residents at General Plan build out would require a total of 130 deputies, which is an increase of 81 deputies as compared with 2009 staffing levels. This would require a significant increase in the number of deputies and level of police protection afforded to the residents of the Town. An increase in the number of deputies, associated staff, equipment, and patrol vehicles could result in substantial costs to the Town. However, the demand for additional police protection services would increase gradually, and an increase in Town revenue was also expected with General Plan build out.

Overall, without mitigation, impacts associated with build out of the proposed General Plan and Annexation 2008-001 were expected to be significant. Therefore, mitigation measures were set forth in the EIR, including review of new project proposals by the Sheriff's Department and continued monitoring of staffing levels, to ensure that any potential adverse effects to law enforcement would be reduced to less than significant levels.

#### Annexation 2008-001

The EIR determined that at build out, Annexation 2008-001 was expected to have a population of 13,238. Based on the standard of one deputy per 1,500 population, the build out population of the annexation area would have required an additional 9 deputies. As with the Town limits, this build out was expected to occur gradually, and the mitigation measures included in the EIR would be applied to the annexation area, resulting in less than significant impacts on police services.

# Analysis of the Proposed 2018-001 Annexation

At build out, the 2018-001 Annexation is expected to generate fewer people (i.e. 739 persons) than Annexation 2008-001, and would result in a need for a ½ deputy equivalent. This would not create any new impacts associated with police services, and any such impacts would be less than those identified in the EIR.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

At build out, the 2018-001 Annexation and the remaining County lands is expected to generate a population of 1,391 persons. This will result in a demand for 1 deputy, which would be a reduction in demand compared to Annexation 2008-001. It would not create any new impacts associated with law enforcement, and any such impacts would be less than those identified in the EIR.

#### Fire Protection

The EIR determined that the Town of Apple Valley receives fire protection services from the Apple Valley Fire Protection District (AVFPD). AVFPD is an independent District that serves the Town and unincorporated areas of San Bernardino County. The District's approximately 206 square mile service area extended easterly from the Mojave River as far as the dry lakes toward Lucerne Valley.

At the time EIR was certified, the District had 20 paid-call, 5 part-time, and 54 career (paid, full-time) staff. Of these, 50 were assigned to the following seven stations within the District:

- 1. **Station No. 331** at 22400 Headquarters Drive has 12 staff, and is equipped with a Type-1 engine, a Type-2 water tender, and a medium-level rescue vehicle.
- 2. **Station No. 332** at 18857 Highway 18 has 9 staff. Equipment includes a Type-1 engine and a Type-3 engine.
- 3. **Station No. 333** at 20604 Highway 18 is staffed with private ambulance company personnel.
- 4. **Station 334** at 12143 Kiowa Road has 9 staff, a Type-1 engine, and a Type-3 engine.
- 5. **Station No. 335** at 21860 Tussing Ranch Road is staffed by paid-call staff only. This means that staff members are alerted via pager to calls within the response area. The station is equipped with a Type-1 engine and a Type-3 water tender.
- 6. **Station No. 336** at 19235 Yucca Loma Road has 6 career and 10 paid-call staff, and is equipped with a rescue squad vehicle, a Type-1 engine, a Type-4 engine, an Incident Command bus, an Incident Support unit and a Type-2 truck.
- 7. **Station No. 337** at 19305 Jess Ranch Parkway was added in October 2007. Staffing has been expanded, as of April 2008, from 2 to 4 staff members. The station is equipped with a Type-4 Medic Patrol, a Hazmat Trailer, and a Reserve Squad.

The EIR determined that the AVFPD maintains a mutual aid agreement with other agencies in the region, including the City of Victorville, San Bernardino County, and the Bureau of Land Management. A joint dispatch center located in Victorville served the mutual aid agencies.

The EIR determined that the AVFPD had established a desired staffing ratio of approximately 1 full-time fire personnel per 1,500 persons. With a population of 70,092 in the Town, the staffing level exceeded the desired staffing ratio.

The District's desired response time is 6 minutes. At the time the EIR was prepared, the District averaged a response time within the Town limits of 6 minutes and 25 seconds.

## Annexation 2008-001

The EIR determined that, at build out, Annexation 2008-001 area would be developed with additional residential, commercial, and industrial uses that would result in increased demand for fire protection services. Based on the desired ratio cited above, at build out the annexation area would require 9 full-time fire personnel.

Overall, it was determined that the build out of the proposed General Plan and both the annexation areas was estimated to result in a population of approximately 194,931 residents. This increased population would increase demand for fire protection services including personnel, equipment, and facilities. Based on the AVFPD desired ratio of 1 full-time personnel per 1,500 population, at buildout of the General Plan there would be 130 full-time fire personnel on staff. Costs associated with the provision of new fire facilities and equipment, as well as the infrastructure to deliver adequate fire flows, could be significant. The District, however, was a taxing entity whose revenues increase as development occurs. In addition, the EIR included multiple mitigation measures designed to reduce impacts associated with fire protection to less than significant levels, including coordination between the Town and the District, review of project proposals, and coordination with water providers to assure sufficient fire flows. The implementation of these mitigation measures would reduce impacts to fire protection to less than significant levels.

# Analysis of the Proposed 2018-001 Annexation

At build out, the 2018-001 annexation area is expected to generate fewer people (i.e. 739 persons) than the Annexation 2008-001 area, and would result in a demand for ½ fire fighter equivalent. This increase would be less than significant than that analyzed in the EIR, and would not create any new impacts associated with fire protection services.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

At build out, the new annexation including the remaining County lands is expected to generate 1,391 residents. This would result in a demand for 1 firefighter, which would be a significant reduction in impacts associated with fire protection from what was disclosed in the EIR. Impacts would be less than those projected for Annexation 2008-001 in the EIR.

#### Health Care Services

The EIR determined that St. Mary Medical Center, located at 18300 Highway 18, is a 186-bed hospital, and the largest health care facility in the Town. The approximately 90-acre campus provides acute, general, medical-surgical, and intensive care, and includes a 24-hour emergency room and a variety of other in- and out-patient medical services. At the time EIR was certified, the facility encompassed approximately 215,000 square feet, including offices. The hospital was designated as a Level III trauma care center, which is the lowest level of trauma care. The EIR determined that the near-term (5-year) plans included construction of new acute care facilities with the intention of attaining Level I trauma care status.

The EIR determined that the County of San Bernardino High Desert Juvenile Detention and Assessment Center (HDJDAC) was located at 21101 Dale Evans Parkway. Opened in 2004, the 200-bed facility is a short-term residential facility wherein short-term juvenile offenders can receive special programs and public schooling while awaiting hearing before a judge.

Several residential senior care facilities are located in Apple Valley and provide services ranging from independent to assisted living facilities and skilled nursing care. Some facilities also offer specialized care for persons with Alzheimer's or other forms of dementia.

Other Medical Facilities in the Region: At the time EIR was certified, there were two other hospitals in the vicinity of the General Plan area: Victor Valley Community Hospital, located approximately 5 miles west of Apple Valley; and Desert Valley Hospital, located approximately 10 miles to the southwest. Victor Valley Community Hospital, licensed for 115 beds, included 24-hour/7-day a week emergency services and an on-site heliport. Desert Valley was licensed for 83 beds. Both centers included acute care hospitals.

In addition, injured persons requiring Level I care were transported to the Loma Linda Medical Center, approximately 51 miles from Apple Valley. Loma Linda had 900 beds and was the only Level I trauma center for Inyo, Mono, San Bernardino, and Riverside counties.

The EIR determined that the health care facilities inside and outside the planning area would be impacted by build out of the General Plan and Annexation 2008-001 area, and should continue to plan for regional growth. Other health care providers, such as Victor Valley Community Hospital and Desert Valley Hospital, were also expected to continue to expand to maintain adequate services as needs were identified.

Overall, without mitigation, impacts associated with build out of the proposed General Plan and Annexation 2008-001 were not expected to be significant, because as private providers of medical care, they would expand their facilities as demand increased. Therefore, no mitigation measures were required.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

At build out, the 2018-001 Annexation, including the remaining County lands, is expected to generate fewer permanent residents than were projected at build out of Annexation 2008-001. This would result into lesser impacts associated with health care services for residents, visitors, and employees than what was disclosed in the EIR. Impacts would remain less than significant, and the 2018-001 Annexation would not introduce any new or significantly increased impacts.

## **Electricity**

The EIR explained that Southern California Edison (SCE) provides electrical services to the General Plan area. At that time, SCE had four major electric transmission corridors in the region, each with 115kV lines. Power from these lines was provided to businesses, industrial plants, institutions, and residences in the planning area via distribution facilities and circuits ranging from 33kV to 6.9kV. There were three SCE substations in Apple Valley, with voltages of 33kV to 115kV. All new electric lines of 34.5kV or less in Apple Valley were required to be undergrounded, in compliance with Town Ordinance 14.28.020. SCE was conferring with the

Town to determine a location for a new planned 115/12kV substation to serve newly developing areas by year 2013. Based on its 2008, 10-year load forecasts, SCE was expecting to be able to provide electrical service to future development in the Town and Sphere of Influence, including the proposed Annexation 2008-001 area.

The EIR calculated electrical consumption for build out of the General Plan and annexations based on South Coast Air Quality Management District (SCAQMD) estimated electricity usage rates by land use type, as shown in Table 20.

Table 20 Estimated Electricity Usage Rates

* ***	
Land Use	Annual Usage Rate
Residential	5,626 Kilowatt-hour/unit/year
Retail Commercial	13.55 Kilowatt-hour/square feet/year
Restaurant	47.45 Kilowatt-hour/square feet/year
Hotel/Motel	9.95 Kilowatt-hour/square feet/year
Office	12.95 Kilowatt-hour/square feet/year
Food Store	53.30 Kilowatt-hour/square feet/year
Source: Town of Apple Valle	y General Plan and Annexations 2008-001 & 2008-
002/Environmental Impact Report	t (Table III-56).

Based on annual usage rates shown above, build out of the proposed General Plan and both the annexation areas was estimated to result in electrical consumption of 1,807,978,891 kilowatthours per year (kwh/year). Of this, 353,683,749 kwh/year would for residential uses, 924,262,572 kwh/year would be for commercial uses, and 525,032,571 kwh/year would be used by industrial establishments.

#### Annexation 2008-001

At build out, Annexation 2008-001 was estimated to result in electrical consumption of 220,749,040 kwh/year, which included existing and future residential, commercial, and industrial development. No development projects were immediately planned for construction in the annexation area, and therefore, the proposed annexation was not expected to result in an immediate increase in demand for electricity. The gradual expansion of SCE infrastructure would be required at build out of these areas, which would contribute to the regional demand for electricity, but which would be accommodated by expanded service as SCE provided for demand. Impacts were, therefore, expected to be less than significant.

# Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation consists of 1,304 acres and has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out. That would result in the electrical consumption of approximately 110,858,715 kwh/year, using the factors provided in Table 20.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The remaining County land, approximately 1,470 acres, would allow up to 218 single family residential units and 75,899 square feet of commercial space. That would result in electrical consumption of approximately 2,254,899 kwh/year, using the factors provided in Table 20 for the remaining County lands.

The total electrical consumption at build out of the 2018-001 Annexation and the remaining County lands is approximately 113,113,615 kwh/year, which is less than what was estimated for Annexation 2008-001 by about 49%.

Overall, the impacts would be less than what was disclosed in the EIR, and would not result in a new or significantly greater impact than that analyzed in the EIR. Impacts would remain less than significant.

#### Natural Gas

The EIR determined that the Southwest Gas Company provides natural gas service to the Town and its planning area through a series of pipelines of differing sizes and pressure capabilities. Transmission, supply, and distribution lines provide service to most portions of the Town and its Sphere of Influence.

At the time EIR was certified, natural gas was not provided in some areas within the service area; these included those without existing facility extensions, undeveloped areas, or extremely rural areas. Southwest Gas Company indicated that it would accommodate new development in the planning area by working closely with developers to build extensions for build out areas. Where natural gas services and facilities were not available, propane was utilized as an alternative source of fuel.

The EIR included consumption factors provided by Southwest Gas Company for Apple Valley, as shown in Table 21.

Table 21 Natural Gas Consumption Factors

	•
Land Use	Monthly Use Rate
Single Family Residential	6,665.0 cf/unit/month
Multiple Family Residential	4,011.5 cf/unit/month
Retail/Shopping Center	2.9 cf/sq.ft./month
Office	2.0 cf/sq.ft./month
Hotel/Motel	4.8 cf/sq.ft./month
Industrial	4.8 cf/sq.ft./month
Source: Town of Apple Valley General P	Plan and Annexations 2008-001 & 2008-002/Environmental Impact
Danast (Table III 57)	

The EIR determined that, at General Plan build out, the planning area is expected to contain approximately 36,619 single-family dwelling units, 27,130 multi-family dwelling units, 51,860,766 square feet of commercial space, and 281,188,992 square feet of industrial space. Using the factors described above, build out was projected to result in consumption of about 779,089,325 cubic feet per month.

#### Annexation 2008-001

The EIR determined that the implementation of Annexation 2008-001 would facilitate residential, commercial, and industrial development that would result in increased natural gas consumption. Based on the factors cited above, it was estimated that all development in the annexation area would consume approximately 76,209,944 cubic feet per month.

Southwest Gas's rate structure includes the expansion of facilities to accommodate growth. As development and build out of the General Plan and annexation areas is expected to occur over time, expansion plans will be adjusted to accommodate it. Impacts were, therefore, expected to be less than significant.

# Analysis of the Proposed 2018-001 Annexation

The 2018-001 Annexation consists of 1,304 acres and has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out. This build out would result in the natural gas consumption of approximately 35,553,563 cubic feet per month, using the factors above.

Overall, impacts associated with natural gas consumption at build out of the 2018-001 Annexation area will be less than those projected at buildout of Annexation 2008-001. Impacts will be less than significant.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The remaining County land, approximately 1,470 acres, would allow up to 218 single family residential units and 75,899 square feet of commercial space. That would result in natural gas consumption of 1,673,077 cubic feet per month, using the factors given above in Table 20, for the remaining County lands. The total natural gas consumption for the 2018-001 Annexation and the remaining County lands would be approximately 37,226,640 cubic feet per month which is less than what was estimated for the Annexation 2008-001 by about 51%.

Overall, the impacts would be less than what was disclosed in the EIR, and would not result in any new or significantly increased impacts associated with natural gas.

# Telephone, Internet, and Television Service

The EIR determined that telephone and high-speed internet services were provided in the area by Verizon and Charter Communications. The EIR determined that build out of the General Plan would result in increased demand for telephone, internet, and television services and would impact facilities and equipment owned and maintained by Verizon and Charter Communications. Future development was expected to require expansion of services to areas not currently serviced. It was expected, however, that these private service providers would expand their services as needed, and that impacts to telecommunications would not be significant.

## Annexation 2008-001

The EIR determined that the development facilitated by the annexation was expected to result in construction of additional residences, as well as additional commercial and industrial development. Both Verizon and Charter Communications planned for extension of infrastructure throughout the region, based on future development. Implementation of the proposed annexation was not expected to result in significant impacts to their facilities or equipment, as these service providers would monitor growth trends in their service areas and ensure the expansion of services and facilities.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The 2018-001 Annexation and the remaining County lands would be served by Frontier Communications, which was formerly Verizon, and Charter Communications, as well as a number of cellular and internet providers who have expanded their services since the EIR was prepared. As was the case when the EIR was certified, these private providers incorporate expansion of services based on consumer demand, and will expand services as development occurs. Because build out intensity in the annexation area and the remaining County lands will be less than proposed in Annexation 2008-001, the impact would be less than what was analyzed in the EIR, and would remain less than significant.

# **Domestic Water Services**

The EIR determined that there were several water purveyors responsible for providing domestic water to the Town of Apple Valley and areas within its Sphere-of-Influence. The Apple Valley Ranchos Water Company (now known as Liberty Utilities Apple Valley) served approximately 19,000 customer connections, or approximately 80% of residential, commercial, industrial, and institutional development in the Town. Golden States Water Company provided service to approximately 2,500 active connections in the Town and its Sphere of Influence. Several other smaller water purveyors also provided water within the General Plan area.

Neither of the two annexation areas was located within a service area served by a local water purveyor. Water users in both annexation areas utilized domestic water from private wells or from storage tanks filled with water deliveries from private haulers.

The EIR determined that the build out of the General Plan and both the annexations would result in water demand associated with increased residential, commercial, industrial, and other types of development. This demand was estimated based on water consumption factors from a variety of sources. Based on these factors, General Plan build out was estimated to generate water demand of 95,999 acre-feet per year in total.

The EIR determined that cumulatively, build out of the General Plan and the annexations would impact domestic water, and that this impact would be significant. As a result, the EIR included a number of mitigation measures to reduce these impacts to less than significant levels, including water conservation measures contained in building codes and Town ordinances.

#### Annexation 2008-001

The same factors used to estimate water consumption associated with General Plan build out were used to calculate water consumption in the annexation area. At build out, it was estimated that development in Annexation 2008-001 would result in a water demand of 6,476 acre-feet per year.

Since these areas were not served by local water purveyors, implementation of the annexation would require the extension of infrastructure to provide domestic water service to future development. This was expected to occur over time as development took place. The Town and applicable water purveyors would monitor growth in these areas and plan for extension of future infrastructure as demand increased. Mitigation measures included in the EIR would, however, reduce these impacts to less than significant levels.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

As discussed above in Section I (Water Quality and Resources), at build out the 2018-001 Annexation and remaining County lands would result in a demand of 1,706.43 AFY, approximately 4,770 less AFY than what was projected for Annexation 2008-001 in the EIR. Impacts would be less than what was disclosed in the EIR, but would still require the implementation of mitigation measures, in order to assure that water resources were efficiently managed. The 2018-001 Annexation and the remaining County lands, however, would not result in additional new impacts, or significantly increase an impact identified in the EIR.

#### Wastewater Collection and Treatment

The EIR determined that Apple Valley operated the local wastewater collection system, in accordance with the plans and projections contained in the Town's Sewer Master Plan. Approximately 30% of development in the Town was connected to sewer facilities. The Town's local conveyance system connected to regional intercept lines that conveyed wastewater to a wastewater treatment plant operated by the Victor Valley Wastewater Treatment Authority (VVWRA) in Victorville. The VVWRA wastewater treatment plant is located at 20111 Shay Road in Victorville. It had a design treatment capacity of 18 MGD; on a daily basis, the plant averaged treatment of 13 million gallons.

The Town adopted a Sewer Connection Policy in January 2006 that required new single-family subdivisions with lots of less than one acre, and within one-half mile of existing sewer infrastructure, to connect to the Town sewer system; or where development occurred more than one-half mile from existing sewer lines, to install a dry sewer system on-site. New users connecting to sewer facilities were subject to a sewer connection fee collected by the Town and remitted to VVWRA.

The EIR determined that the development facilitated by build out of the General Plan and annexation areas would increase demand on existing wastewater collection and treatment facilities. It was estimated that domestic wastewater flows average approximately 100 gallons per capita per day. Applying this factor to the estimated build out population of 194,931, wastewater generation in the General Plan and annexation areas would be approximately 19,493,069 gallons per day at build out.

The EIR determined that this increase in wastewater generation and demand for collection and treatment facilities was significant when compared with the current level of service, in that it would exceed current treatment capacity at the VVWRA treatment plant in Victorville. This estimate assumed that all new residential construction in the Town would be connected to sewer facilities.

The EIR determined that development in the General Plan and annexation areas would occur gradually over time, giving the Town and VVWRA the opportunity to plan for increased development and bring additional treatment capacity on-line. Nonetheless, they would need to continue to monitor growth trends in the planning area to ensure the adequate provision of wastewater treatment facilities and to secure funding for their construction. Future development connecting to sewer facilities would continue to be subject to connection fees. With the implementation of mitigation measures, build out of the General Plan and annexations would result in less than significant impacts to the sanitary sewer system.

#### Annexation 2008-001

The EIR determined that the build out of the proposed annexation areas would result in additional demand for wastewater collection and treatment facilities. Based on the factor used above, Annexation 2008-001 was expected to result in generation of 1,323,750 gallons of wastewater per day.

New development was not expected to occur immediately in the annexation area, and the Town and VVWRA would monitor growth to ensure adequate wastewater treatment capacity to serve development that is connected to sewer collection facilities in these areas as well as throughout the General Plan area.

# Analysis of the Proposed 2018-001 Annexation

Since the completion of the EIR, VVWRA treatment plant's daily processing has decreased to 10.7 million gallons per day. In addition, VVRWA has proceeded with the expansion of its facilities, including the construction of both the Hesperia and the Apple Valley Subregional

Water Recycling Facilities. The facilities will each recycle up to 1,000,000 gallons per day, which in the case of the Apple Valley facility, will initially be used to irrigate Apple Valley's golf course. Other energy efficiency and pipeline improvement projects have also been undertaken.

The 2018-001 Annexation consists of 1,304 acres and has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units with a projected population of 739. Using the estimated domestic wastewater flows of 100 gallons per capita per day, the proposed 2018-001 Annexation would result in approximately 73,900 gallons per day, which is 1,249,850 gallons of wastewater per day less than projected for Annexation 2008-001 in the EIR. Therefore, impacts associated with wastewater generation would be less to those identified in the EIR, and the same mitigation measures provided in the EIR would reduce impacts to less than significant levels.

## Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

The 2018-001 Annexation plus the remaining County land would result in approximately 139,100 gallons per day of sanitary sewer flow, which is 1,184,650 gallons of wastewater per day less than projected in the EIR for Annexation 2008-001. Therefore, any impacts would be less to those identified in the EIR, and the same mitigation measures provided in the EIR would reduce impacts to less than significant levels.

# **Solid Waste Management**

The EIR determined that the Town of Apple Valley contracts with Burrtec Waste Industries of Fontana, California for the collection and disposal of solid waste. Burrtec provides weekly curbside pick-up of recyclable materials for residential, commercial and industrial development. Solid waste collected by Burrtec is hauled to the Victorville landfill, approximately 12 miles to the northwest, which is a San Bernardino County landfill.

The operating permit for the Victorville landfill allows for a maximum of 3,000 tons a day. When the EIR was prepared, it received an average of 900 tons per day. Receipts in the first quarter of 2007 reflected higher averages of approximately 1,401 tons per day, which decreased in the first quarter of 2008 to 1,293 tons per day.

In 2006, commercial sources generated approximately 43,382 tons of solid waste at the Victorville landfill annually, while residential sources generated about 25,479 tons. Based on estimates prepared in June 2008, the remaining capacity of the site was estimated at 82 million cubic yards. The County had acquired additional acreage at the landfill to expand capacity. Based on this expansion, the Victorville landfill is estimated to have a closing date of 2047.

The Victorville landfill accepts non-hazardous industrial wastes. Hazardous industrial waste is collected by private contractors and disposed of elsewhere by County-approved hazardous waste disposal firms. Disposal of hazardous waste is coordinated through the County Fire Department. Disposal of such wastes has commonly taken place at Cattleman's Hill in central California.

<u>Source Reduction and Recycling</u>: Based on Department of Public Works records, in 2006, Burrtec collected approximately 68,861 tons of recyclable materials from sources in the Town, 43,382 tons of which came from commercial sources, and 25,479 tons from residential sources. Recycling services address issues of sustainability and global warming by resulting in energy and resources conservation.

Greenwaste generated in the Town of Apple Valley is accepted at the California Bio-Mass composting facility on Shay Road in Victorville. The facility processed approximately 18,000 tons of greenwaste annually. Of this amount, approximately 1,771 tons were generated from sources in Apple Valley in 2006, and 925 tons in 2007.

<u>Materials Recovery Facility (MRF)</u>: The Victor Valley Materials Recovery Facility (MRF), coowned by the Town of Apple Valley and the City of Victorville, receives all the commercial and residential recycling loads picked up in both jurisdictions. The facility processed over 710 tons of solid waste per week.

Build out of the General Plan and annexation areas was expected to generate a total of approximately 950,712 tons of solid waste per year, or 2,603 tons per day. Build out of the General Plan and the annexations will increase the volume of solid waste generated.

## Annexation 2008-001

The EIR determined that Annexation 2008-001 would generate approximately 118,744 tons of solid waste at build out. Estimates of solid waste generation for the proposed annexation area were included in those for build out of the General Plan area described above. The EIR determined that, because of the increased demand over time, the build out of the General Plan and Annexation 2008-001 would result in impacts associated with increased solid waste generation, but that mitigation measures would reduce these impacts to less than significant levels.

# <u>Analysis of the Proposed 2018-001 Annexation, and 2018-001 Annexation Plus Remaining County Lands</u>

The 2018-001 Annexation consists of 1,304 acres and has the potential to result in 5,657,059 square feet of commercial space, 3,646,216 square feet of industrial space, and a total of 247 residential units at build out with a projected population of 739. Using the estimated solid waste generation rates used in the EIR (Table III-58), the proposed 2018-001 Annexation would result in approximately 53,459.95 tons of solid waste at build out which is less than the 118,744 tons of solid waste projected for Annexation 2008-001.

Build out of the remaining County lands would generate an estimated 626.87 tons of solid waste per year. At buildout, the 2018-001 Annexation and the remaining County lands combined are expected to generate 54,086.82tons of solid waste, which is less than the 118,744 tons of solid

waste projected at build out of Annexation 2008-001. Therefore, impacts would be less than those identified in the EIR, and the same mitigation measures provided in the EIR would reduce impacts to less than significant levels.

# **Summary of Impacts**

The 2018-001 Annexation is not expected to create a substantial adverse effect related to the construction of new or altered public services and facilities. Overall, the impacts will be less than those disclosed in the EIR.

The EIR included a number of mitigation measures to minimize the impacts related to public services and facilities. As was the case in the EIR, the 2018-001 Annexation will be required to pay school district development fees. The impacts associated with public services and facilities will be less than significant, and less than those analyzed in the EIR.

#### N. Recreational Resources

## Summary of Findings in the EIR

The EIR determined that the Town of Apple Valley had 346.87 acres of developed parkland in 2008. There were seven Mini-Parks, two Neighborhood Parks, three Community Parks, and two Special Use Parks in Town.

At the time the EIR was prepared, the Town planned to purchase the Apple Valley Country Club and open its facilities to the public. The course was purchased in 2008, and opened as a public course. The Town had an additional 65 acres of BLM land and privately owned land for two parks that were approved within Specific Plans, but not yet developed. It also owned an additional 27 acres of land identified for park use, but they were not yet developed. Combined, park and recreation holdings totaled 438.87 acres of developed or developable parklands. Other recreational resources included the Mojave river-bottom and the Apple Valley Dry Lake designated open space areas. Various rock outcrops, knolls, and riverside bluffs in the planning area were also designated open spaces that provided further recreational opportunity to the Town's residents and visitors.

The Town adopted a park standard of five acres of parkland per 1,000 persons, as set forth in Development Code Section 9.71.055(C).

The EIR determined that the build out of the General Plan could impact the Town's recreational resources with the introduction of approximately 38,824 new dwelling units and a total build out population of 194,931 residents. The Town was expected to require 975 acres of parkland at build out. However, the impact on local recreational resources was expected to be reduced to less than significant levels by the development of additional parkland that would be required through implementation of the Quimby Act. The EIR also identified Development Agreements, Developer Impact Fees, and other funding mechanisms as strategies for facilitating the acquisition of additional parkland.

#### Annexation 2008-001

The EIR determined that build out of Annexation Area 2008-001 would result in 4,236 residential units and a build out population of 13,238. Build out of the area would require approximately 66 acres of parkland to meet the recreational needs of the residents of Annexation 2008-001.

The EIR concluded that the impacts of the General Plan and Annexations 2008-001 on recreation would be less than significant with the implementation of two mitigation measures: required participation of developers in the Town's parkland fee programs and Quimby requirements, and the Town's active pursuit of supplemental funding sources to acquire additional parklands.

# Analysis of the Proposed 2018-001 Annexation

Build out of the 2018-001 Annexation area could result up to 247 residential units and a buildout population of 739, and require the provision of approximately 3.7 acres of parkland to meet the Town's standard of 5 acres of parkland per 1,000 residents. Compared to Annexation 2008-001, this represents 12,499 fewer residents, and 62 fewer acres of required parkland at build out.

# Analysis of the Proposed 2018-001 Annexation Plus the Remaining County Lands

Development of the remaining County lands will result in 218 housing units and a population of 652. This population will generate a need for 3.3 acres of parkland, based on the Town's mandated ratio (5 acres per 1,000 residents).

In total, therefore, build out of the 2018-001 Annexation and the remaining County lands will result in a need for 7 acres of parkland. This represents a decrease of 59 acres from the parkland required at build out of Annexation 2008-001 analyzed in the EIR.

## **Summary of Impacts**

The 2018-001 Annexation would result in a reduction in build out population and required parkland acreage compared to Annexation 2008-001. In addition, the 2018-001 Annexation would comply with the open space requirements for residential uses set forth by the Town. Impacts would be less than those identified in the Certified EIR, and implementation of the mitigation measures provided in the EIR will reduce impacts even further. The project would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects. No changes in circumstances or new information pertaining to recreation are known to require major revisions to the EIR.

# O. Transportation and Traffic

## Summary of Findings in the EIR

The EIR determined that the circulation network in the Town of Apple Valley is comprised of 500 miles of paved roadways on a one-mile grid framework, and approximately 80% of the roads are local streets that serve existing residential neighborhoods. The EIR described the major regional and local roadways in the planning area traffic circulation system.

## Major Regional Roadways

*U.S. Interstate 15:* The EIR determined that I-15 constitutes a major transportation corridor and provides the high desert region and Apple Valley with inter-regional and inter-state access. It connects the high desert with Las Vegas, Salt Lake City, and markets to the north. I-15 includes 3 lanes in each direction. There are two freeway interchanges at Dale Evans Parkway and Stoddard Wells Road.

State Route 18: The EIR determined that State Route 18 is a 4-lane divided highway along which are substantial portions of the Town's existing commercial development and pockets of residential development.

# Major Local Roadways

Dale Evans Parkway: This is a north-south roadway that is designated as a Major Divided Parkway with a minimum 142-foot right-of-way from I-15 south to Thunderbird Road. It is the only road so classified in the General Plan area. South of Thunderbird Road it is classified as a Major Road (minimum 104-foot of right-of-way). At the time the EIR was certified, it was a 2-lane undivided road from I-15 south to Otoe Road, and a 4-lane divided roadway between Otoe Road and State Route 18.

*Bear Valley Road:* It is an east-west roadway classified as a Major Divided Arterial. It intersects State Route 18 east of the Town limits and spans the Town from east to west. Between the eastern boundary of Apple Valley and Central Road it is a 2-lane undivided highway, expanding to 4 lanes divided to Apple Valley Road. From there it becomes 6 lanes divided and crosses the Mojave River as it exits the Town at an all-weather crossing.

Tussing Ranch Road: It is an east-west roadway that forms a portion of the Town's southern boundary. It is designated a Major Divided Arterial within the Town, and a major road easterly of the Town limits. It is a 2-lane undivided road in the Town.

Central Road: It is a north-south road that forms a portion of the Town's eastern boundary. It is designated a Major Divided Arterial south of Johnson Road. It is 2-lanes undivided throughout the Town, with the exception for one roadway segment just north of Cahuilla Road where it is a 3-lane undivided roadway. Central Road crosses the Mojave Northern Mining Railroad line at Quarry Road.

Kiowa Road: It is a north-south street from Yucca Loma Road to the Town's southern boundary, and runs southwest to northeast from Yucca Loma, crossing State Route 18 and terminating at Navajo Road. Kiowa Road is classified as a Major Road between Bear Valley Road and Yucca Loma Road, and as a Major Divided Arterial south of Bear Valley Road.

Apple Valley Road: It runs north-south from its initiation point at Falchion Road south to State Route 18. It trends southwest to its intersection with Seneca Road, and thence north-south to the Town's southern boundary. Throughout most of the planning area, Apple Valley Road is classified a Major Divided Arterial roadway. It is 2 lanes in each direction between State Route 18 and Yucca Loma Road, and a 4-lane divided highway north of State Route 18, becoming 2-lane divided south of Seneca Road, and 2-lane undivided further south to and beyond its intersection with Yucca Loma Road, south to Sitting Bull Road. South of Sitting Bull Road, it remains 2-lane undivided, then becomes 4-lane divided, and expands to 6-lanes divided at Bear Valley Road. South of Bear Valley Road it returns to a 4-lane divided roadway.

The EIR determined that a number of secondary roads (minimum 88-foot right-of-way) in the Town connect major roads and serve to carry local traffic to larger streets.

# Intersection Conditions in the Planning Area in 2008

The General Plan that was in effect prior to the General Plan update of 2008 established a minimum intersection Level of Service (LOS) of C. When the EIR was prepared, and current conditions analyzed, eight (8) intersections were operating at LOS D, E, or F during AM and/or PM peak hours. The EIR discussed and analyzed the General Plan's proposed policy to change the minimum intersection LOS to D, and to require LOS C for roadway segments.

#### Roadways in Annexation 2008-001

At the time the EIR was prepared, there was a small network of paved and unpaved roadways within the annexation area. No major roadways occurred in the annexation area, although the area was bordered by major roadways, including Dale Evans Parkway on the east side of Annexation 2008-001. The General Plan roadways within the annexation area were Johnson Road, a Secondary Road; Quarry Road, a Secondary Road; and Stoddard Wells Road, a Major Road.

## Public Transportation Services

Public transit services were provided to the Town by the Victor Valley Transit Authority. The EIR determined that three dedicated routes [Route 40 (Apple Valley North), Route 41 (Apple Valley/Victorville), and Route 43 (Apple Valley/Victor Valley College)] operated in the planning area.

# Apple Valley Airport

The Apple Valley Airport is a general aviation airport serving fixed wing aircraft and helicopters, and airport operations are generally limited to small, private aircraft and flight schools. At the time the EIR was prepared, the airport was operating approximately 103 flights daily, or 38,000 operations annually.

#### Rail Service

The EIR determined that the there are two rail lines in the planning area. The Mojave Northern Mining Railroad, serving the Mojave Northern Mining Quarry, intersects the northern portion of the planning area south of Quarry Road. A second rail line intersects a small portion of the Town limits, south of Tussing Ranch Road between Central Road and Kiowa Road. It served mining operations to the east in San Bernardino County.

Non-Motorized Transportation: Pedestrian, Equestrian, and Bicycle Circulation
The EIR determined that three types of bikeways (Class I, II, and III) are part of the Apple
Valley circulation system. Bicycle travel is allowed on all public roadways, except freeways and
freeway ramps.

The EIR included the recommended guidelines for signalized and unsignalized pedestrian crosswalks (e.g. a minimum width of 6 feet, or 10 feet in commercial districts, adequate lighting, unimpeded sight distance and freedom from obstructions).

## Impacts of General Plan Build Out

The EIR described a significant new component to the Town's and region's circulation system, which is projected to be implemented in the future, but was not and is not currently present in the circulation system. The High Desert Corridor is proposed by the California Department of Transportation, and would bisect the northern portion of the Town, approximately 2 miles south of Annexation 2008-001. It is intended to provide a freeway connection between the southeastern portion of the Town to I-15. At the time the EIR was prepared, the preliminary alignment had been determined and was included in the EIR and traffic impact analysis. Since that time, environmental studies have been completed, but no construction has occurred.

Buildout of the proposed Apple Valley General Plan and both the annexations studied in the EIR would result in the construction of up to 63,749 dwelling units, approximately 51,860,766 square feet of commercial land uses and approximately 58,581,040 square feet of industrial land uses. The EIR traffic impact analysis, summarized in the EIR, considered this build out potential, and analyzed its impacts on intersections Town-wide. This analysis included construction and operation of the Town's roadways at General Plan build out conditions, and the completion of the High Desert Corridor. The results of this analysis are depicted in Table 22, below, reproduced from the EIR.

Table 22 Intersection Operations Analysis Summary

	T			cuon C	_				_				¥7 /¥			, ,	_	
	Intersection	Traffic	No	orthbound	1	S	outhbo	und	Ŀ	Eastbou	nd	'	Westbo	und		lay <sup>2</sup>	Leve	
No	Name	Control	L	T	R	L	Т	R	L	Т	R	L	Т	R	AM	ec.) PM	Servi	PM
No	Name		L	1	K	L	1	K	L	1	K	L	1	K	AM	PM	AM	PM
1	I-15 SB Ramps (NS) at:																	
	• Dale Evans Pkwy. (EW)	<u>TS</u>	0	0	0	<u>2</u>	0	<u>1</u>	0	<u>3</u>	<u>1</u>	<u>3</u>	<u>3</u>	0	16.8	20.0	В	В
2	I-15 NB Ramps (NS) at:																	
	• Dale Evans Pkwy. (EW)	<u>TS</u>	<u>1</u>	0	1>>	0	0	0	<u>1</u>	<u>3</u>	0	0	<u>3</u>	<u>1</u>	10.7	14.4	В	В
3	Dale Evans Pkwy. (NS) at:																	
	• Quarry Rd. (EW)	<u>TS</u>	<u>2</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1&gt;</u>	51.6	49.5	D	D
4	Outer Hwy. 15 (NS) at:																	
	• Stoddard Wells Rd. (EW)	$\overline{\mathbf{TS}}$	0	0	0	<u>2</u>	0	1>>	<u>2</u>	<u>3</u>	0	0	<u>3</u>	<u>1</u>	24.7	26.0	C	C
5	Dale Evans Pkwy. (NS) at:																	
	• Corwin Rd. (EW)	<u>TS</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>1.5</u>	<u>0.5</u>	<u>2</u>	<u>2</u>	<u>1&gt;</u>	68.6	52.8	E	D
6	Corwin Rd. (NS) at:																	
	• Waalew Rd. (EW)	<u>TS</u>	0	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	0	0	0	0	1	0	1	24.3	30.1	C	C
8	Dale Evans Pkwy. (NS) at:																	
	• Waalew Rd. (EW)	<u>TS</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	<u>1</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	47.5	32.7	D	C
9	Central Rd. (NS) at:																	
	• Waalew Rd. (EW)	<u>TS</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	<u>1</u>	<u>3</u>	<u>1&gt;</u>	<u>2.5</u>	1	<u>0.5</u>	<u>1</u>	<u>2</u>	<u>1</u>	53.2	39.5	D	D
10	Apple Valley Rd. (NS) at:																	
	• State Route 18 (EW)	TS	<u>2</u>	<u>1.5</u>	<u>0.5</u>	1	<u>2</u>	1	2	<u>3</u>	1>>	<u>2</u>	<u>3</u>	1	54.5	48.0	D	D
11	Corwin Rd. (NS) at:																	
	• State Route 18 (EW)	TS	0	0	0	<u>2</u>	0	<u>1&gt;&gt;</u>	<u>2</u>	<u>3</u>	0	0	<u>3</u>	<u>1&gt;</u>	43.6	34.3	D	C
12	Rancherias Rd. (NS) at:																	
	• State Route 18 (EW)	TS	1	<u>1.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	<u>2</u>	<u>2.5</u>	<u>0.5</u>	1	<u>3</u>	1	43.4	45.1	D	D
13	Dale Evans Rd. (NS) at:																	
	• Thunderbird Rd. (EW)	<u>TS</u>	1	<u>1.5</u>	<u>0.5</u>	<u>2</u>	<u>2.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	42.2	31.7	D	C
																		1

Table 22 Intersection Operations Analysis Summary

	Intersection	Traffic Control		orthbound			outhbo			Eastbou	nd	,	Westbo	und	Del (se	lay <sup>2</sup>	Leve	
No .	Name	— ı –	L	Т	R	L	Т	R	L	Т	R	L	T	R	AM	PM	AM	PM
14	Navajo Rd. at:																	
	• Thunderbird Rd. (EW)	<u>TS</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>0.5</u>	<u>0.5</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>1.5</u>	<u>0.5</u>	29.0	33.8	C	C
15	Central Rd. (NS) at:																	
	• Thunderbird Rd. (EW)	<u>TS</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>0.5</u>	0.5	<u>1</u>	<u>0.5</u>	<u>0.5</u>	52.5	44.5	D	C
16	Dale Evans Pkwy. (NS) at:																	
	• State Route 18 (EW)	TS	<u>1</u>	<u>0.5</u>	<u>0.5</u>	<u>2</u>	<u>1.5</u>	<u>0.5</u>	1	<u>3</u>	1	1	<u>3</u>	<u>1&gt;</u>	43.1	54.4	D	D
17	Kiowa Rd. (NS) at:																	
	• State Route 18 (EW)	TS	<u>2</u>	<u>0.5</u>	<u>0.5</u>	1	<u>0.5</u>	<u>0.5</u>	1	<u>3</u>	<u>1&gt;</u>	1	<u>2.5</u>	<u>0.5</u>	29.5	26.6	C	C
18	Apple Valley Rd. (NS) at:																	
	• Yucca Loma Rd. (EW)	TS	<u>2</u>	<u>2.5</u>	<u>0.5</u>	<u>2</u>	<u>2</u>	1	1	<u>3</u>	<u>1&gt;</u>	<u>2</u>	<u>2</u>	1	43.9	54.9	D	D
19	Kiowa Rd. (NS) at:																	
	• Yucca Loma Rd. (EW)	<u>TS</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>0.5</u>	<u>0.5</u>	1	<u>2</u>	<u>1</u>	<u>2</u>	<u>1.5</u>	<u>0.5</u>	39.4	50.6	D	D
20	Navajo Rd. (NS) at:																	
	• State Route 18 (EW)	TS	<u>2</u>	<u>2</u>	<u>2&gt;</u>	1	<u>2</u>	1	1	<u>3</u>	1	<u>2</u>	<u>3</u>	1	52.9	54.7	D	D
21	Central Rd. (NS) at:																	
	• State Route 18 (EW)	TS	<u>2</u>	<u>2.5</u>	<u>0.5</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	<u>2</u>	<u>3</u>	<u>1&gt;</u>	1	<u>2.5</u>	<u>0.5</u>	51.8	39.6	D	D
22	Joshua Rd. (NS) at:																	
	• State Route 18 (EW)	<u>TS</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	12.9	13.0	В	В
23	Apple Valley Rd. (NS) at:																	
	• Bear Valley Rd. (EW)	TS	2	<u>3</u>	<u>1&gt;</u>	2	<u>3</u>	2>	2	<u>3</u>	1	<u>2</u>	<u>3</u>	<u>1</u>	49.1	53.3	D	D
24	Deep Creek Rd. (NS) at:																	
	• Bear Valley Rd. (EW)	<u>TS</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	27.9	34.3	C	C
25	Kiowa Rd. (NS) at:																	
	• Bear Valley Rd. (EW)	TS	<u>2</u>	<u>1.5</u>	<u>0.5</u>	1	2	1	<u>2</u>	<u>3</u>	<u>1&gt;</u>	1	<u>3</u>	1	43.2	41.9	D	D

Table 22 Intersection Operations Analysis Summary

	Intersection	Traffic Control		orthbound			outhbo	<u> </u>		Eastbou	nd	7	Westbo	und	Del (se	•	Leve	
No	Name	— ı –	L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM
26	Navajo Rd. (NS) at:																	
	• Bear Valley Rd. (EW)	TS	1	<u>1.5</u>	<u>0.5</u>	<u>2</u>	2	1	<u>2</u>	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	42.4	54.6	D	D
27	Central Rd. (NS) at:																	
	• Bear Valley Rd. (EW)	TS	1	<u>2.5</u>	<u>0.5</u>	1	<u>3</u>	<u>1&gt;</u>	<u>2</u>	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	43.6	44.0	D	D
28	State Route 18 (NS) at:																	
	• Bear Valley Rd. (EW)	<u>TS</u>	<u>2</u>	<u>3</u>	0	0	<u>2.5</u>	<u>0.5</u>	1	0	<u>1</u>	0	0	0	17.7	24.8	В	C
29	Central Rd. (NS) at:																	
	• Tussing Ranch Rd. (EW)	<u>TS</u>	<u>1</u>	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>3</u>	<u>1&gt;</u>	<u>2</u>	<u>2.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	27.2	23.8	C	C
30	Deep Creek Rd. (NS) at:																	
	• Rock Springs Rd. (EW)	TS	<u>1</u>	<u>0.5</u>	<u>0.5</u>	<u>1</u>	<u>0.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	25.9	24.3	C	C
31	I-15 SB Ramps (NS) at:																	
	• Stoddard Wells Rd. (EW)	TS	<u>1</u>	<u>1</u>	<u>2&gt;</u>	<u>2</u>	<u>0.5</u>	<u>0.5</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>	37.7	48.8	D	D
32	I-15 NB Ramps (NS) at:																	
	• Stoddard Wells Rd. (EW)	TS	<u>2</u>	1	<u>1&gt;&gt;</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>1&gt;</u>	<u>2</u>	<u>4</u>	<u>1</u>	51.6	48.8	D	D
33	Outer Highway 15 (NS) at:																	
	• Stodddard Wells Rd. (EW)	TS	<u>2</u>	<u>2</u>	0	0	<u>2</u>	1>>	<u>2</u>	<u>0</u>	<u>1&gt;&gt;</u>	0	<u>0</u>	0	52.3	29.5	D	C
34	Outer Highway 15 (NS) at:																	
	• Saugus Rd. (EW)	TS	0	<u>1.5</u>	<u>0.5</u>	<u>2</u>	<u>2</u>	0	0	0	0	1	0	<u>1&gt;&gt;</u>	21.1	30.5	C	C
35	Choco Rd. (NS) at:																	
	• H. D. C. WB Ramps (EW)	TS	<u>2</u>	<u>3</u>	0	0	<u>3</u>	1>>	0	0	0	<u>2</u>	0	<u>1</u>	16.4	14.4	В	В
36	Choco Rd. (NS) at:																	
	• H. D. C. EB Ramps (EW)	TS	0	<u>3</u>	<u>1</u>	<u>2</u>	<u>3</u>	0	<u>2</u>	0	<u>2</u>	0	0	0	51.2	28.3	D	C
37	Dale Evans Pkwy. (NS) at:																	
	• H. D. C. WB Ramps (EW)	TS	0	<u>3</u>	<u>1&gt;&gt;</u>	0	<u>3</u>	<u>1&gt;&gt;</u>	0	0	0	<u>1</u>	0	<u>2&gt;</u>	22.3	8.8	C	A

Table 22
Intersection Operations Analysis Summary

	Intersection	Traffic Control	N	Northboun	d	S	outhbo	und	I	Eastbou	nd	,	Westbo	und	Del (se	ay <sup>2</sup> ec.)	Leve	
No	Name	<del>-</del> 1 -	L	T	R	L	Т	R	L	T	R	L	Т	R	AM	PM		PM
38	Dale Evans Pkwy. (NS) at:																	
	• H. D. C. EB Ramps (EW)	TS	0	<u>3</u>	<u>2</u>	0	<u>3</u>	1>>	<u>2</u>	0	<u>1</u>	0	0	0	14.4	8.1	В	A
39	H.D.C. EB Ramps (NS) at:																	
	• Waalew Rd. (EW)	TS	0	0	0	<u>2</u>	0	<u>2</u>	0	<u>1.5</u>	<u>0.5</u>	<u>1</u>	<u>2</u>	0	20.5	15.5	C	В
40	H.D.C. WB Ramps (NS) at:																	
	• Waalew Rd. (EW)	TS	<u>1</u>	0	<u>1</u>	0	0	0	<u>1</u>	<u>2</u>	0	0	<u>2</u>	<u>2</u>	12.7	12.6	В	В
41	Central Rd. (NS) at:																	
	• H.D.C. WB Ramps (EW)	TS	<u>2</u>	<u>3</u>	0	0	<u>2.5</u>	<u>0.5</u>	0	0	0	<u>1</u>	0	<u>1</u>	12.8	22.1	В	C
42	Central Rd. (NS) at:																	
	• H.D.C. EB Ramps (EW)	TS	0	<u>2.5</u>	<u>0.5</u>	<u>1</u>	<u>3</u>	0	<u>2</u>	0	<u>2</u>	0	0	0	21.1	24.2	C	C
43	Tao Rd. (NS) at:																	
	• State Route 18 (EW)	TS	1	<u>0.5</u>	<u>0.5</u>	1	<u>1.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	21.0	33.3	C	C
44	Apple Valley Rd. (NS) at:																	
	• Sitting Bull Rd. (EW)	TS	1	<u>2.5</u>	<u>0.5</u>	1	<u>2.5</u>	<u>0.5</u>	1	<u>0.5</u>	<u>0.5</u>	<u>1</u>	0.5	<u>0.5</u>	30.1	29.2	C	C
45	Kiowa Rd. (NS) at:																	
	• Sitting Bull Rd. (EW)	<u>TS</u>	1	<u>1.5</u>	<u>0.5</u>	22.5	23.2	C	C									
46	Navajo Rd. (NS) at:																	
leres	• Nisqually Rd. (EW)	TS	1	<u>1.5</u>	<u>0.5</u>	24.4	38.6	C	D									

<sup>&</sup>lt;sup>1</sup>When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; > = Right-turn Overlap Phasing; >> = Free Right Turn Lane;  $\underline{\mathbf{1}}$  = Improvement

<sup>&</sup>lt;sup>2</sup>Delay and level of service calculated using the following analysis software: Traffix, Version 7.9 R3 (2008). Per the 2000 Highway Capacity Manual, overall average intersection delay and level of service are shown for intersections with traffic, traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for worst individual movement (or movements sharing a single lane) are shown. <sup>3</sup>TS = Traffic Signal

As shown in Table 22, with improvements, intersections within the studied planning area were expected to operate at LOS D or better, with the exception of the intersection of Dale Evans Parkway and Corwin Road, which was expected to operate at LOS E. The traffic impact analysis considered any and all potential feasible mitigation measures for this intersection, and determined that no such mitigation measures existed, and that the impacts would remain significant and unavoidable. All other impacts associated with traffic and circulation were found to be less than significant, with the implementation of a broad range of mitigation measures which ranged from improvements to bus turnouts to payment of fair share improvements by projects as development occurred, to assure a coordinated and complete General Plan roadway system, and the construction of sidewalks, bicycle paths and trails to encourage and improve alternative transportation.

#### Analysis of the Proposed 2018-001 Annexation

Build out of the proposed 2018-001 Annexation area could result in up to 247 residential units, 5,657,058 square feet of commercial space, and 3,646,216 square feet of industrial space. In addition, approximately 86.4 acres would be improved as street right-of-way.

A traffic impact analysis was prepared for the proposed 2018-001 Annexation by Urban Crossroads on September 2017 and revised on October 2017. The purpose of the report was to determine if the proposed 2018-001 Annexation would generate more or fewer trips than that previously evaluated as part of the 2009 General Plan (Annexation 2008-001). In order to reflect current conditions and changes in the standards applied to trip generation, trip generation was developed for both 2008 annexation land use build out and the proposed 2018-001 Annexation using the current 10<sup>th</sup> Edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. This provides an "apples to apples" analysis, rather than comparing 2008 trip generation rates to 2017 trip generation rates. Table 23 summarizes the current trip generation estimates of Annexation 2008-001 build out. Annexation 2008-001 proposed land uses would generate a net total of approximately 309,176 trip-ends per day, with 17,140 morning peak hour trips and 32,933 evening peak hour trips.

<sup>&</sup>lt;sup>12</sup> Apple Valley Land Annexation Trip Generation Assessment prepared by Urban Crossroads, September 2017.

<sup>&</sup>lt;sup>13</sup> Apple Valley Land Annexation Trip Generation Assessment prepared by Urban Crossroads, October 2017.

Table 23
Trip Generation Summary
Annexation 2008-001

Land Use	Onontitu	Units	A	M Peak Ho	ır	P	M Peak Hou	ır	Daily
Land Use	Quantity	Units	In	Out	Total	In	Out	Total	
Estate Residential	722	DU	134	401	535	450	267	714	6,816
Medium Density Residential	2,659	DU	492	1,476	1,968	1,658	974	2,632	25,101
Mixed-Use Residential	854	DU	158	474	632	533	313	846	8,062
Commercial Retail	5,380.731	TSF	3,136	1,922	5,058	9,840	10,660	20,500	203,123
General Office	1,754.639	TSF	1,750	285	2,035	323	1,695	2,018	17,090
General Light Industrial	7,782.275	TSF							
Passenger Cars			3,768	514	4,282	501	3,353	3,854	30,340
Truck Trips									
2-axle:			575	78	653	76	512	588	4,632
3-axle:			374	51	425	50	333	383	3,011
4+-axle:			1,366	186	1,552	182	1,216	1,398	11,001
- Net Truck Trips (PCE)			2,315	315	2,630	308	2,061	2,369	18,644
Total			11,753	5,387	17,140	13,613	19,320	32,933	309,176

Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual,  $10^{th}$  Edition (2017). DU = dwelling units; TSF = thousand square feet

By comparison, the proposed 2018-001 Annexation is anticipated to generate a net total of approximately 186,515 trip-ends per day, with 9,149 morning peak hour trips and 19,745 evening peak hour trips. Trip generation associated with build out of the remaining County lands has been calculated separately from the 2018-001 Annexation. Both are shown in Table 24. Combined, the 2018-001 Annexation plus the remaining County lands would generate a total of 191,438 trips per day, with 9,381 morning peak hour trips and 20,250 evening peak hour trips.

Table 24
Trip Generation Summary
2018-001 Annexation

			2010 0	л Ашсл	111011				
I and II	0	TT *4	A	M Peak Ho	ur	F	M Peak Hou	ır	Daily
Land Use	Quantity	Units	In	Out	Total	In	Out	Total	
			2018-001	Annexation	Area				
Estate Residential	247	DU	46	137	183	154	90	244	2,332
Commercial Retail	3,789.101	TSF	2,208	1,353	3,561	6,930	7,507	14,437	143,039
General Office	1,867	TSF	1,863	303	2,166	344	1,804	2,148	18,194
General Light Industrial	3,646.216	TSF							
<ul> <li>Passenger Cars</li> </ul>			1,765	241	2,006	235	1,571	1,806	14,215
Truck Trips									
2-axle:			270	37	307	36	240	276	2,170
3-axle:			175	24	199	23	156	179	1,411
4+-axle:			640	87	727	85	570	655	5,154
- Net Truck Trips				148	1,233	144	966	1,110	9 722
(PCE)			1,085						8,732
Total			6,967	2,182	9,149	7,807	11,938	19,745	186,515
			County of S	an Bernard	ino Area				
Rural Living	218	DU	40	121	161	136	80	216	2,058
Commercial Retail	75.899	TSF	44	27	71	139	150	289	2,865
Total			84	148	232	275	230	505	4,923
	•	•			•	•	•	•	
Grand Total			7,051	2,330	9,381	8,082	12,250	20,250	191,438

Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, 10<sup>th</sup> Edition (2017). DU = dwelling units; TSF = thousand square feet

#### Trip Generation Comparison

As shown in Table 25, compared to Annexation 2008-001, build out of the proposed 2018-001 Annexation is anticipated to generate 117,738 fewer trip-ends per day, including 7,759 fewer morning peak hour trips and 12,683 fewer evening peak hour trips. This represents a reduction of 38% in daily trips.

Table 25
Trip Generation Comparisons

Land Use	A	M Peak Ho	ur	P	M Peak Hou	ır	Daily
Land Use	In	Out	Total	In	Out	Total	
Annexation 2008-001	11,753	5,387	17,140	13,613	19,320	32,933	309,176
2018-001 Annexation	7,051	2,330	9,381	8,082	12,168	20,250	191,438
Variance	-4,702	-3,057	-7,759	-5,531	-7,152	-12,683	-117,738

#### Summary of Impacts

The development of the proposed 2018-001 Annexation is anticipated to generate 117,738 fewer trip-ends per day as compared to Annexation 2008-001. Therefore, the impacts projected for the roadways and intersections surrounding the Annexation area would be similar to or less than those considered in the EIR. Based on the reduction in trips identified for the proposed 2018-001 Annexation, the LOS previously projected for the roadways and intersection near the Annexation 2008-001 would remain the same or would improve. To further improve the LOS in the annexation area, the build out of the 2018-001 Annexation will be subject to the same mitigation measures included in the EIR, including the preparation of project-specific traffic impact analyses, and regular monitoring of traffic volumes by the Town. The proposed 2018-001 Annexation will not create new or substantially more adverse impacts to transportation or traffic than those disclosed in the EIR, and will not require any new mitigation measures.

# Appendix A CalEEMOD Modeling Data

## Appendix A

CalEEMod 2016.3.1 Outputs

for the

Apple Valley Annexation 2017 (2008 Annexation Re-Run, AV Annexation 2017, AV Annexation 2017 plus SB County)

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2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 2008 Annexation Re-Run

#### San Bernardino-Mojave Desert County, Annual

#### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4,236.00	Dwelling Unit	1,091.60	7,624,800.00	12115
General Office Building	1,754.64	1000sqft	183.10	1,754,639.00	0
Regional Shopping Center	5,380.73	1000sqft	590.00	5,380,731.00	0
Industrial Park	7,782.27	1000sqft	812.10	7,782,275.00	0
Other Asphalt Surfaces	97.80	Acre	97.80	4,260,168.00	0

#### 1.2 Other Project Characteristics

 Urbanization
 Urban
 Wind Speed (m/s)
 2.6
 Precipitation Freq (Days)
 32

 Climate Zone
 10
 Operational Year
 2025

**Utility Company** Southern California Edison

CO2 Intensity 702.44 CH4 Intensity 0.029 N2O Intensity 0.006 (lb/MWhr) (lb/MWhr) (lb/MWhr) 0.029

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Original 2008 Annexation land use breakdown, including street ROW.

Construction Phase - GP Buildout is 2025.

Off-road Equipment -

Vehicle Trips - Same trip rates used for 2017 annexation for comparison.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	BuildingSpaceSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	BuildingSpaceSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LandUseSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	LandUseSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	LandUseSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LotAcreage	1,375.32	1,091.60
tblLandUse	LotAcreage	40.28	183.10
tblLandUse	LotAcreage	123.52	590.00
tblLandUse	LotAcreage	178.66	812.10
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00

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tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

## **2.0 Emissions Summary**

#### 2.1 Overall Construction

#### **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							МТ	Г/уг		
2017	14.6578	16.1068	15.0509	0.0456	34.9620	0.3449	35.3069	9.4806	0.3221	9.8027	0.0000	4,233.928 7	4,233.928 7	0.3375	0.0000	4,242.367 1
2018	87.5890	89.7755	81.0180	0.2730	46.9806	1.7789	48.7594	12.7331	1.6605	14.3936	0.0000	25,342.38 39	25,342.38 39	1.9465	0.0000	25,391.04 59
2019	86.5931	83.3946	73.1329	0.2675	46.9805	1.5879	48.5684	12.7331	1.4812	14.2143	0.0000	24,826.241 1	24,826.24 11	1.8758	0.0000	24,873.13 53
2020	86.0283	76.5080	66.9560	0.2641	47.0356	1.3699	48.4054	12.7480	1.2754	14.0234	0.0000	24,475.92 38	24,475.92 38	1.8006	0.0000	24,520.93 83
2021	56.3244	46.2475	40.9540	0.1716	42.1289	0.7374	42.8663	11.4202	0.6840	12.1041	0.0000	15,913.23 80	15,913.23 80	1.1509	0.0000	15,942.011 0
Maximum	87.5890	89.7755	81.0180	0.2730	47.0356	1.7789	48.7594	12.7480	1.6605	14.3936	0.0000	25,342.38 39	25,342.38 39	1.9465	0.0000	25,391.04 59

## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 2.1 Overall Construction Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tor	is/yr							M	Г/уг		
2017	14.6578	16.1068	15.0509	0.0456	34.9620	0.3449	35.3069	9.4806	0.3221	9.8027	0.0000	4,233.928 3	4,233.928 3	0.3375	0.0000	4,242.366 7
2018	87.5890	89.7755	81.0180	0.2730	46.9806	1.7789	48.7594	12.7331	1.6605	14.3936	0.0000	25,342.38 12	25,342.38 12	1.9465	0.0000	25,391.04 32
2019	86.5931	83.3946	73.1328	0.2675	46.9805	1.5879	48.5684	12.7331	1.4812	14.2143	0.0000	24,826.23 85	24,826.23 85	1.8758	0.0000	24,873.13 27
2020	86.0283	76.5080	66.9560	0.2641	47.0356	1.3699	48.4054	12.7480	1.2754	14.0234	0.0000	24,475.92 12	24,475.92 12	1.8006	0.0000	24,520.93 57
2021	56.3244	46.2475	40.9540	0.1716	42.1289	0.7374	42.8663	11.4202	0.6840	12.1041	0.0000	15,913.23 63	15,913.23 63	1.1509	0.0000	15,942.00 92
Maximum	87.5890	89.7755	81.0180	0.2730	47.0356	1.7789	48.7594	12.7480	1.6605	14.3936	0.0000	25,342.38 12	25,342.38 12	1.9465	0.0000	25,391.04 32
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2017	1-31-2018	46.0237	46.0237
2	2-1-2018	4-30-2018	43.0206	43.0206
3	5-1-2018	7-31-2018	44.4744	44.4744
4	8-1-2018	10-31-2018	44.4725	44.4725
5	11-1-2018	1-31-2019	43.8486	43.8486
6	2-1-2019	4-30-2019	41.2468	41.2468

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7	5-1-2019	7-31-2019	42.6554	42.6554
8	8-1-2019	10-31-2019	42.6461	42.6461
9	11-1-2019	1-31-2020	41.9505	41.9505
10	2-1-2020	4-30-2020	39.7528	39.7528
11	5-1-2020	7-31-2020	40.6733	40.6733
12	8-1-2020	10-31-2020	40.6545	40.6545
13	11-1-2020	1-31-2021	40.0165	40.0165
14	2-1-2021	4-30-2021	37.5934	37.5934
15	5-1-2021	7-31-2021	38.9137	38.9137
16	8-1-2021	9-30-2021	13.1122	13.1122
		Highest	46.0237	46.0237

## 2.2 Overall Operational

## **Unmitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr				МТ	/yr					
Area	384.4254	5.5538	359.6530	0.5961		46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321 2	4.0879	0.3442	6,467.081 8
Energy	1.0922	9.4664	4.9483	0.0596		0.7546	0.7546	1       	0.7546	0.7546	0.0000	75,413.26 38	75,413.26 38	2.8743	0.7500	75,708.61 96
Mobile	90.5384	635.7406	1,326.784 0	6.3474	552.8554	3.8617	556.7171	148.1343	3.5972	151.7315	0.0000	589,113.19 98	589,113.19 98	24.0928	0.0000	589,715.5 191
Waste	,	<del></del>     	1 1 1			0.0000	0.0000	1       	0.0000	0.0000	4,445.248 4	0.0000	4,445.248 4	262.7067	0.0000	11,012.914 6
Water	#;		1			0.0000	0.0000	,	0.0000	0.0000	883.8900	13,716.00 44	14,599.89 44	91.3502	2.2608	17,557.35 81
Total	476.0560	650.7608	1,691.385 3	7.0031	552.8554	50.7928	603.6482	148.1343	50.5283	198.6626	9,704.747 2	680,129.1 804	689,833.9 275	385.1119	3.3549	700,461.4 931

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## 2.2 Overall Operational

#### **Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				MT	<sup>7</sup> /yr						
Area	384.4254	5.5538	359.6530	0.5961		46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321 2	4.0879	0.3442	6,467.081 8
Energy	1.0922	9.4664	4.9483	0.0596		0.7546	0.7546		0.7546	0.7546	0.0000	75,413.26 38	75,413.26 38	2.8743	0.7500	75,708.61 96
Mobile	90.5384	635.7406	1,326.784 0	6.3474	552.8554	3.8617	556.7171	148.1343	3.5972	151.7315	0.0000	589,113.19 98	589,113.19 98	24.0928	0.0000	589,715.5 191
Waste						0.0000	0.0000		0.0000	0.0000	4,445.248 4	0.0000	4,445.248 4	262.7067	0.0000	11,012.914 6
Water						0.0000	0.0000		0.0000	0.0000	883.8900	13,716.00 44	14,599.89 44	91.3502	2.2608	17,557.35 81
Total	476.0560	650.7608	1,691.385 3	7.0031	552.8554	50.7928	603.6482	148.1343	50.5283	198.6626	9,704.747 2	680,129.1 804	689,833.9 275	385.1119	3.3549	700,461.4 931

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

#### **Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/1/2017	8/31/2021	5	1000	
2	Building Construction	Building Construction	11/1/2017	8/31/2021	5	1000	
3	Demolition	Demolition	11/1/2017	8/31/2021	5	1000	
4	Grading	Grading	11/1/2017	8/31/2021	5	1000	
5	Paving	Paving	11/1/2017	8/31/2021	5	1000	
6	Site Preparation	Site Preparation	11/1/2017	8/31/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 97.8

Residential Indoor: 15,440,220; Residential Outdoor: 5,146,740; Non-Residential Indoor: 22,376,468; Non-Residential Outdoor: 7,458,823; Striped Parking Area: 255,610 (Architectural Coating – sqft)

**OffRoad Equipment** 

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1,773.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	8,866.00	3,596.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

## **3.1 Mitigation Measures Construction**

## 3.2 Architectural Coating - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	12.6254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1400e- 003	0.0470	0.0402	6.0000e- 005		3.7300e- 003	3.7300e- 003		3.7300e- 003	3.7300e- 003	0.0000	5.4895	5.4895	5.8000e- 004	0.0000	5.5040
Total	12.6326	0.0470	0.0402	6.0000e- 005		3.7300e- 003	3.7300e- 003		3.7300e- 003	3.7300e- 003	0.0000	5.4895	5.4895	5.8000e- 004	0.0000	5.5040

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2018	0.1661	1.6430	3.2400e- 003	0.3072	2.3300e- 003	0.3095	0.0816	2.1500e- 003	0.0838	0.0000	291.5559	291.5559	0.0121	0.0000	291.8585
Total	0.2018	0.1661	1.6430	3.2400e- 003	0.3072	2.3300e- 003	0.3095	0.0816	2.1500e- 003	0.0838	0.0000	291.5559	291.5559	0.0121	0.0000	291.8585

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	12.6254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1400e- 003	0.0470	0.0402	6.0000e- 005		3.7300e- 003	3.7300e- 003		3.7300e- 003	3.7300e- 003	0.0000	5.4895	5.4895	5.8000e- 004	0.0000	5.5040
Total	12.6326	0.0470	0.0402	6.0000e- 005		3.7300e- 003	3.7300e- 003		3.7300e- 003	3.7300e- 003	0.0000	5.4895	5.4895	5.8000e- 004	0.0000	5.5040

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2018	0.1661	1.6430	3.2400e- 003	0.3072	2.3300e- 003	0.3095	0.0816	2.1500e- 003	0.0838	0.0000	291.5559	291.5559	0.0121	0.0000	291.8585
Total	0.2018	0.1661	1.6430	3.2400e- 003	0.3072	2.3300e- 003	0.3095	0.0816	2.1500e- 003	0.0838	0.0000	291.5559	291.5559	0.0121	0.0000	291.8585

## 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.6335		i i i			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e- 004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3992
Total	76.6725	0.2618	0.2420	3.9000e- 004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3992

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0916	0.8770	8.7024	0.0191	1.8645	0.0136	1.8781	0.4953	0.0126	0.5078	0.0000	1,720.307 4	1,720.307 4	0.0642	0.0000	1,721.912 7
Total	1.0916	0.8770	8.7024	0.0191	1.8645	0.0136	1.8781	0.4953	0.0126	0.5078	0.0000	1,720.307 4	1,720.307 4	0.0642	0.0000	1,721.912 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.6335					0.0000	0.0000	  -  -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e- 004		0.0197	0.0197	i i	0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3991
Total	76.6725	0.2618	0.2420	3.9000e- 004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3991

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.2 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0916	0.8770	8.7024	0.0191	1.8645	0.0136	1.8781	0.4953	0.0126	0.5078	0.0000	1,720.307 4	1,720.307 4	0.0642	0.0000	1,721.912 7
Total	1.0916	0.8770	8.7024	0.0191	1.8645	0.0136	1.8781	0.4953	0.0126	0.5078	0.0000	1,720.307 4	1,720.307 4	0.0642	0.0000	1,721.912 7

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.6335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004	·	0.0168	0.0168	       	0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903
Total	76.6683	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9911	0.7704	7.6984	0.0184	1.8645	0.0132	1.8777	0.4953	0.0122	0.5074	0.0000	1,661.867 0	1,661.867 0	0.0563	0.0000	1,663.275 0
Total	0.9911	0.7704	7.6984	0.0184	1.8645	0.0132	1.8777	0.4953	0.0122	0.5074	0.0000	1,661.867 0	1,661.867 0	0.0563	0.0000	1,663.275 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.6335					0.0000	0.0000	  -  -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004	     	0.0168	0.0168	i i	0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903
Total	76.6683	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9911	0.7704	7.6984	0.0184	1.8645	0.0132	1.8777	0.4953	0.0122	0.5074	0.0000	1,661.867 0	1,661.867 0	0.0563	0.0000	1,663.275 0
Total	0.9911	0.7704	7.6984	0.0184	1.8645	0.0132	1.8777	0.4953	0.0122	0.5074	0.0000	1,661.867 0	1,661.867 0	0.0563	0.0000	1,663.275 0

## 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.9271					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124
Total	76.9588	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9156	0.6863	6.9544	0.0179	1.8716	0.0129	1.8846	0.4972	0.0119	0.5091	0.0000	1,616.2611	1,616.2611	0.0498	0.0000	1,617.505 9
Total	0.9156	0.6863	6.9544	0.0179	1.8716	0.0129	1.8846	0.4972	0.0119	0.5091	0.0000	1,616.261 1	1,616.261 1	0.0498	0.0000	1,617.505 9

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	76.9271					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004	       	0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123
Total	76.9588	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.9156	0.6863	6.9544	0.0179	1.8716	0.0129	1.8846	0.4972	0.0119	0.5091	0.0000	1,616.2611	1,616.2611	0.0498	0.0000	1,617.505 9
Total	0.9156	0.6863	6.9544	0.0179	1.8716	0.0129	1.8846	0.4972	0.0119	0.5091	0.0000	1,616.261 1	1,616.261 1	0.0498	0.0000	1,617.505 9

## 3.2 Architectural Coating - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	50.7954					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1321	0.1572	2.6000e- 004		8.1400e- 003	8.1400e- 003	 	8.1400e- 003	8.1400e- 003	0.0000	22.0856	22.0856	1.5200e- 003	0.0000	22.1235
Total	50.8143	0.1321	0.1572	2.6000e- 004		8.1400e- 003	8.1400e- 003		8.1400e- 003	8.1400e- 003	0.0000	22.0856	22.0856	1.5200e- 003	0.0000	22.1235

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5626	0.4059	4.2143	0.0114	1.2359	8.3200e- 003	1.2442	0.3283	7.6600e- 003	0.3359	0.0000	1,033.263 3	1,033.263 3	0.0297	0.0000	1,034.004 4
Total	0.5626	0.4059	4.2143	0.0114	1.2359	8.3200e- 003	1.2442	0.3283	7.6600e- 003	0.3359	0.0000	1,033.263 3	1,033.263 3	0.0297	0.0000	1,034.004 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	50.7954					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1321	0.1572	2.6000e- 004		8.1400e- 003	8.1400e- 003	i i	8.1400e- 003	8.1400e- 003	0.0000	22.0856	22.0856	1.5200e- 003	0.0000	22.1235
Total	50.8143	0.1321	0.1572	2.6000e- 004		8.1400e- 003	8.1400e- 003		8.1400e- 003	8.1400e- 003	0.0000	22.0856	22.0856	1.5200e- 003	0.0000	22.1235

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5626	0.4059	4.2143	0.0114	1.2359	8.3200e- 003	1.2442	0.3283	7.6600e- 003	0.3359	0.0000	1,033.263 3	1,033.263 3	0.0297	0.0000	1,034.004 4
Total	0.5626	0.4059	4.2143	0.0114	1.2359	8.3200e- 003	1.2442	0.3283	7.6600e- 003	0.3359	0.0000	1,033.263 3	1,033.263 3	0.0297	0.0000	1,034.004 4

## 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0670	0.5709	0.3909	5.8000e- 004		0.0384	0.0384		0.0361	0.0361	0.0000	51.7060	51.7060	0.0127	0.0000	52.0244
Total	0.0670	0.5709	0.3909	5.8000e- 004		0.0384	0.0384		0.0361	0.0361	0.0000	51.7060	51.7060	0.0127	0.0000	52.0244

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3741	10.5367	2.5418	0.0219	0.5156	0.0886	0.6042	0.1488	0.0847	0.2335	0.0000	2,094.329 4	2,094.329 4	0.1551	0.0000	2,098.206 7
Worker	1.0089	0.8307	8.2159	0.0162	1.5361	0.0117	1.5477	0.4080	0.0108	0.4188	0.0000	1,457.944 1	1,457.944 1	0.0605	0.0000	1,459.456 9
Total	1.3830	11.3673	10.7578	0.0381	2.0517	0.1002	2.1519	0.5568	0.0955	0.6523	0.0000	3,552.273 6	3,552.273 6	0.2156	0.0000	3,557.663 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0670	0.5709	0.3909	5.8000e- 004		0.0384	0.0384		0.0361	0.0361	0.0000	51.7059	51.7059	0.0127	0.0000	52.0244
Total	0.0670	0.5709	0.3909	5.8000e- 004		0.0384	0.0384		0.0361	0.0361	0.0000	51.7059	51.7059	0.0127	0.0000	52.0244

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3741	10.5367	2.5418	0.0219	0.5156	0.0886	0.6042	0.1488	0.0847	0.2335	0.0000	2,094.329 4	2,094.329 4	0.1551	0.0000	2,098.206 7
Worker	1.0089	0.8307	8.2159	0.0162	1.5361	0.0117	1.5477	0.4080	0.0108	0.4188	0.0000	1,457.944 1	1,457.944 1	0.0605	0.0000	1,459.456 9
Total	1.3830	11.3673	10.7578	0.0381	2.0517	0.1002	2.1519	0.5568	0.0955	0.6523	0.0000	3,552.273 6	3,552.273 6	0.2156	0.0000	3,557.663 6

## 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3497	3.0524	2.2943	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867
Total	0.3497	3.0524	2.2943	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9822	59.8202	13.5747	0.1328	3.1296	0.4234	3.5531	0.9032	0.4051	1.3083	0.0000	12,687.14 33	12,687.14 33	0.8973	0.0000	12,709.57 65
Worker	5.4584	4.3854	43.5169	0.0954	9.3235	0.0681	9.3917	2.4766	0.0628	2.5394	0.0000	8,602.507 2	8,602.507 2	0.3211	0.0000	8,610.534 6
Total	7.4405	64.2057	57.0917	0.2281	12.4532	0.4916	12.9448	3.3798	0.4679	3.8477	0.0000	21,289.65 05	21,289.65 05	1.2184	0.0000	21,320.11 12

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3497	3.0524	2.2942	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864
Total	0.3497	3.0524	2.2942	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9822	59.8202	13.5747	0.1328	3.1296	0.4234	3.5531	0.9032	0.4051	1.3083	0.0000	12,687.14 33	12,687.14 33	0.8973	0.0000	12,709.57 65
Worker	5.4584	4.3854	43.5169	0.0954	9.3235	0.0681	9.3917	2.4766	0.0628	2.5394	0.0000	8,602.507 2	8,602.507 2	0.3211	0.0000	8,610.534 6
Total	7.4405	64.2057	57.0917	0.2281	12.4532	0.4916	12.9448	3.3798	0.4679	3.8477	0.0000	21,289.65 05	21,289.65 05	1.2184	0.0000	21,320.11 12

## 3.3 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				MT	/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7656	56.0306	12.1354	0.1314	3.1296	0.3583	3.4879	0.9032	0.3428	1.2460	0.0000	12,558.35 49	12,558.35 49	0.8768	0.0000	12,580.27 46
Worker	4.9561	3.8525	38.4962	0.0921	9.3235	0.0660	9.3895	2.4766	0.0608	2.5374	0.0000	8,310.272 3	8,310.272 3	0.2816	0.0000	8,317.313 1
Total	6.7218	59.8832	50.6316	0.2234	12.4531	0.4243	12.8774	3.3798	0.4036	3.7834	0.0000	20,868.62 72	20,868.62 72	1.1584	0.0000	20,897.58 78

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				МТ	/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7656	56.0306	12.1354	0.1314	3.1296	0.3583	3.4879	0.9032	0.3428	1.2460	0.0000	12,558.35 49	12,558.35 49	0.8768	0.0000	12,580.27 46
Worker	4.9561	3.8525	38.4962	0.0921	9.3235	0.0660	9.3895	2.4766	0.0608	2.5374	0.0000	8,310.272 3	8,310.272 3	0.2816	0.0000	8,317.313 1
Total	6.7218	59.8832	50.6316	0.2234	12.4531	0.4243	12.8774	3.3798	0.4036	3.7834	0.0000	20,868.62 72	20,868.62 72	1.1584	0.0000	20,897.58 78

## 3.3 Building Construction - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				МТ	/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5004	51.3053	10.7379	0.1309	3.1415	0.2425	3.3840	0.9066	0.2320	1.1386	0.0000	12,519.16 28	12,519.16 28	0.8402	0.0000	12,540.16 85
Worker	4.5785	3.4318	34.7760	0.0895	9.3593	0.0645	9.4238	2.4861	0.0594	2.5456	0.0000	8,082.217 0	8,082.217 0	0.2490	0.0000	8,088.441 5
Total	6.0789	54.7370	45.5139	0.2204	12.5008	0.3070	12.8078	3.3927	0.2914	3.6841	0.0000	20,601.37 98	20,601.37 98	1.0892	0.0000	20,628.61 00

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

## 3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				MT	/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5004	51.3053	10.7379	0.1309	3.1415	0.2425	3.3840	0.9066	0.2320	1.1386	0.0000	12,519.16 28	12,519.16 28	0.8402	0.0000	12,540.16 85
Worker	4.5785	3.4318	34.7760	0.0895	9.3593	0.0645	9.4238	2.4861	0.0594	2.5456	0.0000	8,082.217 0	8,082.217 0	0.2490	0.0000	8,088.441 5
Total	6.0789	54.7370	45.5139	0.2204	12.5008	0.3070	12.8078	3.3927	0.2914	3.6841	0.0000	20,601.37 98	20,601.37 98	1.0892	0.0000	20,628.61 00

## 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.1644	1.5079	1.4338	2.3300e- 003		0.0829	0.0829	1 1 1	0.0780	0.0780	0.0000	200.3662	200.3662	0.0483	0.0000	201.5747
Total	0.1644	1.5079	1.4338	2.3300e- 003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3662	200.3662	0.0483	0.0000	201.5747

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.8445	30.8025	6.2795	0.0859	2.0743	0.0547	2.1290	0.5986	0.0523	0.6510	0.0000	8,223.084 4	8,223.084 4	0.5372	0.0000	8,236.515 5
Worker	2.8135	2.0298	21.0739	0.0572	6.1800	0.0416	6.2216	1.6416	0.0383	1.6799	0.0000	5,166.899 2	5,166.899 2	0.1483	0.0000	5,170.605 3
Total	3.6580	32.8324	27.3534	0.1431	8.2543	0.0963	8.3506	2.2402	0.0906	2.3308	0.0000	13,389.98 36	13,389.98 36	0.6855	0.0000	13,407.12 09

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1644	1.5079	1.4338	2.3300e- 003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3660	200.3660	0.0483	0.0000	201.5745
Total	0.1644	1.5079	1.4338	2.3300e- 003		0.0829	0.0829		0.0780	0.0780	0.0000	200.3660	200.3660	0.0483	0.0000	201.5745

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.8445	30.8025	6.2795	0.0859	2.0743	0.0547	2.1290	0.5986	0.0523	0.6510	0.0000	8,223.084 4	8,223.084 4	0.5372	0.0000	8,236.515 5
Worker	2.8135	2.0298	21.0739	0.0572	6.1800	0.0416	6.2216	1.6416	0.0383	1.6799	0.0000	5,166.899 2	5,166.899 2	0.1483	0.0000	5,170.605 3
Total	3.6580	32.8324	27.3534	0.1431	8.2543	0.0963	8.3506	2.2402	0.0906	2.3308	0.0000	13,389.98 36	13,389.98 36	0.6855	0.0000	13,407.12 09

# 3.4 Demolition - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0882	0.9191	0.4948	8.3000e- 004		0.0472	0.0472		0.0439	0.0439	0.0000	76.5411	76.5411	0.0209	0.0000	77.0643
Total	0.0882	0.9191	0.4948	8.3000e- 004		0.0472	0.0472		0.0439	0.0439	0.0000	76.5411	76.5411	0.0209	0.0000	77.0643

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692
Total	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0882	0.9191	0.4948	8.3000e- 004		0.0472	0.0472		0.0439	0.0439	0.0000	76.5410	76.5410	0.0209	0.0000	77.0642
Total	0.0882	0.9191	0.4948	8.3000e- 004		0.0472	0.0472		0.0439	0.0439	0.0000	76.5410	76.5410	0.0209	0.0000	77.0642

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692
Total	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692

# 3.4 Demolition - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530	1 1 1	0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

#### 3.4 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342	1 1	0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

#### 3.4 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173	1 1 1	0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1 .	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2738	2.7196	1.8654	3.3600e- 003		0.1342	0.1342		0.1247	0.1247	0.0000	294.1068	294.1068	0.0828	0.0000	296.1763
Total	0.2738	2.7196	1.8654	3.3600e- 003		0.1342	0.1342		0.1247	0.1247	0.0000	294.1068	294.1068	0.0828	0.0000	296.1763

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479
Total	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2738	2.7196	1.8654	3.3600e- 003		0.1342	0.1342	1 1 1	0.1247	0.1247	0.0000	294.1064	294.1064	0.0828	0.0000	296.1759
Total	0.2738	2.7196	1.8654	3.3600e- 003		0.1342	0.1342		0.1247	0.1247	0.0000	294.1064	294.1064	0.0828	0.0000	296.1759

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1 .	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479
Total	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479

# 3.5 Grading - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii		i i i		23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1236	1.4607	0.8338	1.3300e- 003		0.0661	0.0661		0.0608	0.0608	0.0000	123.7537	123.7537	0.0379	0.0000	124.7016
Total	0.1236	1.4607	0.8338	1.3300e- 003	23.5582	0.0661	23.6243	3.8737	0.0608	3.9345	0.0000	123.7537	123.7537	0.0379	0.0000	124.7016

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e- 003	1.8700e- 003	0.0185	4.0000e- 005	3.4700e- 003	3.0000e- 005	3.4900e- 003	9.2000e- 004	2.0000e- 005	9.4000e- 004	0.0000	3.2888	3.2888	1.4000e- 004	0.0000	3.2923
Total	2.2800e- 003	1.8700e- 003	0.0185	4.0000e- 005	3.4700e- 003	3.0000e- 005	3.4900e- 003	9.2000e- 004	2.0000e- 005	9.4000e- 004	0.0000	3.2888	3.2888	1.4000e- 004	0.0000	3.2923

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	11 11 11				23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1236	1.4607	0.8338	1.3300e- 003		0.0661	0.0661		0.0608	0.0608	0.0000	123.7535	123.7535	0.0379	0.0000	124.7015
Total	0.1236	1.4607	0.8338	1.3300e- 003	23.5582	0.0661	23.6243	3.8737	0.0608	3.9345	0.0000	123.7535	123.7535	0.0379	0.0000	124.7015

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e- 003	1.8700e- 003	0.0185	4.0000e- 005	3.4700e- 003	3.0000e- 005	3.4900e- 003	9.2000e- 004	2.0000e- 005	9.4000e- 004	0.0000	3.2888	3.2888	1.4000e- 004	0.0000	3.2923
Total	2.2800e- 003	1.8700e- 003	0.0185	4.0000e- 005	3.4700e- 003	3.0000e- 005	3.4900e- 003	9.2000e- 004	2.0000e- 005	9.4000e- 004	0.0000	3.2888	3.2888	1.4000e- 004	0.0000	3.2923

# 3.5 Grading - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6643	7.7676	4.5792	8.1000e- 003		0.3437	0.3437		0.3162	0.3162	0.0000	739.2630	739.2630	0.2301	0.0000	745.0165
Total	0.6643	7.7676	4.5792	8.1000e- 003	23.5582	0.3437	23.9019	3.8737	0.3162	4.1899	0.0000	739.2630	739.2630	0.2301	0.0000	745.0165

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237
Total	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6643	7.7676	4.5792	8.1000e- 003		0.3437	0.3437		0.3162	0.3162	0.0000	739.2621	739.2621	0.2301	0.0000	745.0156
Total	0.6643	7.7676	4.5792	8.1000e- 003	23.5582	0.3437	23.9019	3.8737	0.3162	4.1899	0.0000	739.2621	739.2621	0.2301	0.0000	745.0156

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237
Total	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237

# 3.5 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109		0.2861	0.2861	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109	1	0.2861	0.2861	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

# 3.5 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

# 3.5 Grading - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3625	4.0136	2.6710	5.3600e- 003		0.1717	0.1717		0.1580	0.1580	0.0000	471.3816	471.3816	0.1525	0.0000	475.1930
Total	0.3625	4.0136	2.6710	5.3600e- 003	23.5582	0.1717	23.7300	3.8737	0.1580	4.0317	0.0000	471.3816	471.3816	0.1525	0.0000	475.1930

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3500e- 003	4.5800e- 003	0.0475	1.3000e- 004	0.0139	9.0000e- 005	0.0140	3.7000e- 003	9.0000e- 005	3.7900e- 003	0.0000	11.6555	11.6555	3.3000e- 004	0.0000	11.6639
Total	6.3500e- 003	4.5800e- 003	0.0475	1.3000e- 004	0.0139	9.0000e- 005	0.0140	3.7000e- 003	9.0000e- 005	3.7900e- 003	0.0000	11.6555	11.6555	3.3000e- 004	0.0000	11.6639

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3625	4.0136	2.6710	5.3600e- 003	 	0.1717	0.1717	 	0.1580	0.1580	0.0000	471.3810	471.3810	0.1525	0.0000	475.1924
Total	0.3625	4.0136	2.6710	5.3600e- 003	23.5582	0.1717	23.7300	3.8737	0.1580	4.0317	0.0000	471.3810	471.3810	0.1525	0.0000	475.1924

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3500e- 003	4.5800e- 003	0.0475	1.3000e- 004	0.0139	9.0000e- 005	0.0140	3.7000e- 003	9.0000e- 005	3.7900e- 003	0.0000	11.6555	11.6555	3.3000e- 004	0.0000	11.6639
Total	6.3500e- 003	4.5800e- 003	0.0475	1.3000e- 004	0.0139	9.0000e- 005	0.0140	3.7000e- 003	9.0000e- 005	3.7900e- 003	0.0000	11.6555	11.6555	3.3000e- 004	0.0000	11.6639

3.6 Paving - 2017
<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0418	0.4454	0.3232	4.9000e- 004		0.0249	0.0249		0.0229	0.0229	0.0000	45.4580	45.4580	0.0139	0.0000	45.8062
Paving	5.5100e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0473	0.4454	0.3232	4.9000e- 004		0.0249	0.0249		0.0229	0.0229	0.0000	45.4580	45.4580	0.0139	0.0000	45.8062

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692
Total	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0418	0.4454	0.3232	4.9000e- 004		0.0249	0.0249		0.0229	0.0229	0.0000	45.4580	45.4580	0.0139	0.0000	45.8062
Paving	5.5100e- 003		 			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0473	0.4454	0.3232	4.9000e- 004		0.0249	0.0249		0.0229	0.0229	0.0000	45.4580	45.4580	0.0139	0.0000	45.8062

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
· · · · · ·	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692
Total	1.7100e- 003	1.4100e- 003	0.0139	3.0000e- 005	2.6000e- 003	2.0000e- 005	2.6200e- 003	6.9000e- 004	2.0000e- 005	7.1000e- 004	0.0000	2.4666	2.4666	1.0000e- 004	0.0000	2.4692

3.6 Paving - 2018
<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5917	271.5917	0.0846	0.0000	273.7054
Paving	0.0334				   	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2479	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5917	271.5917	0.0846	0.0000	273.7054

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5914	271.5914	0.0846	0.0000	273.7051
Paving	0.0334				     	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2479	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5914	271.5914	0.0846	0.0000	273.7051

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146
Paving	0.0334				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2232	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143
Paving	0.0334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2232	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

# 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911
Paving	0.0336	   			 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2113	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908
Paving	0.0336	 	 		 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2113	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

# 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1086	1.1175	1.2675	1.9700e- 003		0.0586	0.0586		0.0539	0.0539	0.0000	173.2031	173.2031	0.0560	0.0000	174.6035
Paving	0.0222	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1308	1.1175	1.2675	1.9700e- 003		0.0586	0.0586		0.0539	0.0539	0.0000	173.2031	173.2031	0.0560	0.0000	174.6035

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479
Total	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1086	1.1175	1.2675	1.9700e- 003		0.0586	0.0586		0.0539	0.0539	0.0000	173.2029	173.2029	0.0560	0.0000	174.6033
Paving	0.0222	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1308	1.1175	1.2675	1.9700e- 003		0.0586	0.0586		0.0539	0.0539	0.0000	173.2029	173.2029	0.0560	0.0000	174.6033

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479
Total	4.7600e- 003	3.4300e- 003	0.0357	1.0000e- 004	0.0105	7.0000e- 005	0.0105	2.7800e- 003	6.0000e- 005	2.8400e- 003	0.0000	8.7417	8.7417	2.5000e- 004	0.0000	8.7479

# 3.7 Site Preparation - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	i i				9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1067	1.1239	0.5043	8.2000e- 004		0.0619	0.0619		0.0569	0.0569	0.0000	75.9689	75.9689	0.0233	0.0000	76.5509
Total	0.1067	1.1239	0.5043	8.2000e- 004	9.0331	0.0619	9.0950	4.9653	0.0569	5.0223	0.0000	75.9689	75.9689	0.0233	0.0000	76.5509

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2.0500e- 003	1.6900e- 003	0.0167	3.0000e- 005	3.1200e- 003	2.0000e- 005	3.1400e- 003	8.3000e- 004	2.0000e- 005	8.5000e- 004	0.0000	2.9600	2.9600	1.2000e- 004	0.0000	2.9630
Total	2.0500e- 003	1.6900e- 003	0.0167	3.0000e- 005	3.1200e- 003	2.0000e- 005	3.1400e- 003	8.3000e- 004	2.0000e- 005	8.5000e- 004	0.0000	2.9600	2.9600	1.2000e- 004	0.0000	2.9630

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1067	1.1239	0.5043	8.2000e- 004		0.0619	0.0619		0.0569	0.0569	0.0000	75.9689	75.9689	0.0233	0.0000	76.5508
Total	0.1067	1.1239	0.5043	8.2000e- 004	9.0331	0.0619	9.0950	4.9653	0.0569	5.0223	0.0000	75.9689	75.9689	0.0233	0.0000	76.5508

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0500e- 003	1.6900e- 003	0.0167	3.0000e- 005	3.1200e- 003	2.0000e- 005	3.1400e- 003	8.3000e- 004	2.0000e- 005	8.5000e- 004	0.0000	2.9600	2.9600	1.2000e- 004	0.0000	2.9630
Total	2.0500e- 003	1.6900e- 003	0.0167	3.0000e- 005	3.1200e- 003	2.0000e- 005	3.1400e- 003	8.3000e- 004	2.0000e- 005	8.5000e- 004	0.0000	2.9600	2.9600	1.2000e- 004	0.0000	2.9630

# 3.7 Site Preparation - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5954	6.2899	2.9332	4.9600e- 003		0.3363	0.3363	 	0.3094	0.3094	0.0000	453.6168	453.6168	0.1412	0.0000	457.1472
Total	0.5954	6.2899	2.9332	4.9600e- 003	9.0331	0.3363	9.3694	4.9653	0.3094	5.2747	0.0000	453.6168	453.6168	0.1412	0.0000	457.1472

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814
Total	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5954	6.2899	2.9332	4.9600e- 003		0.3363	0.3363		0.3094	0.3094	0.0000	453.6163	453.6163	0.1412	0.0000	457.1467
Total	0.5954	6.2899	2.9332	4.9600e- 003	9.0331	0.3363	9.3694	4.9653	0.3094	5.2747	0.0000	453.6163	453.6163	0.1412	0.0000	457.1467

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814
Total	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814

# 3.7 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119		0.2870	0.2870	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119		0.2870	0.2870	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

### 3.7 Site Preparation - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003		0.2879	0.2879		0.2648	0.2648	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003		0.2879	0.2879		0.2648	0.2648	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

### 3.7 Site Preparation - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3363	3.5030	1.8298	3.2900e- 003		0.1769	0.1769		0.1627	0.1627	0.0000	289.2190	289.2190	0.0935	0.0000	291.5574
Total	0.3363	3.5030	1.8298	3.2900e- 003	9.0331	0.1769	9.2100	4.9653	0.1627	5.1280	0.0000	289.2190	289.2190	0.0935	0.0000	291.5574

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7100e- 003	4.1200e- 003	0.0428	1.2000e- 004	0.0126	8.0000e- 005	0.0126	3.3300e- 003	8.0000e- 005	3.4100e- 003	0.0000	10.4900	10.4900	3.0000e- 004	0.0000	10.4975
Total	5.7100e- 003	4.1200e- 003	0.0428	1.2000e- 004	0.0126	8.0000e- 005	0.0126	3.3300e- 003	8.0000e- 005	3.4100e- 003	0.0000	10.4900	10.4900	3.0000e- 004	0.0000	10.4975

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3363	3.5030	1.8298	3.2900e- 003		0.1769	0.1769		0.1627	0.1627	0.0000	289.2186	289.2186	0.0935	0.0000	291.5571
Total	0.3363	3.5030	1.8298	3.2900e- 003	9.0331	0.1769	9.2100	4.9653	0.1627	5.1280	0.0000	289.2186	289.2186	0.0935	0.0000	291.5571

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7100e- 003	4.1200e- 003	0.0428	1.2000e- 004	0.0126	8.0000e- 005	0.0126	3.3300e- 003	8.0000e- 005	3.4100e- 003	0.0000	10.4900	10.4900	3.0000e- 004	0.0000	10.4975
Total	5.7100e- 003	4.1200e- 003	0.0428	1.2000e- 004	0.0126	8.0000e- 005	0.0126	3.3300e- 003	8.0000e- 005	3.4100e- 003	0.0000	10.4900	10.4900	3.0000e- 004	0.0000	10.4975

# 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	90.5384	635.7406	1,326.784 0	6.3474	552.8554	3.8617	556.7171	148.1343	3.5972	151.7315	0.0000	589,113.19 98	589,113.19 98	24.0928	0.0000	589,715.5 191
Unmitigated	90.5384	635.7406	1,326.784 0	6.3474	552.8554	3.8617	556.7171	148.1343	3.5972	151.7315	0.0000	589,113.1 998	589,113.19 98	24.0928	0.0000	589,715.5 191

### **4.2 Trip Summary Information**

	Ave	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	17,090.19	4,316.41	1842.37	31,274,953	31,274,953
Industrial Park	38,600.06	19,377.85	5681.06	949,670,518	949,670,518
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	203,122.56	268,875.08	135809.63	355,744,921	355,744,921
Single Family Housing	41,258.64	41,978.76	36514.32	115,546,745	115,546,745
Total	300,071.45	334,548.10	179,847.37	1,452,237,136	1,452,237,136

### 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Other Asphalt Surfaces	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

### **5.1 Mitigation Measures Energy**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT	/yr		
Electricity Mitigated			i i			0.0000	0.0000	1	0.0000	0.0000	0.0000	64,604.40 89	64,604.40 89	2.6672	0.5518	64,835.53 31
Electricity Unmitigated	,	<del></del>   	,	, : : :		0.0000	0.0000	,	0.0000	0.0000	0.0000	64,604.40 89	64,604.40 89	2.6672	0.5518	64,835.53 31
NaturalGas Mitigated	1.0922	9.4664	4.9483	0.0596		0.7546	0.7546	,	0.7546	0.7546	0.0000	10,808.85 49	10,808.85 49	0.2072	0.1982	10,873.08 65
NaturalGas Unmitigated	1.0922	9.4664	4.9483	0.0596	     	0.7546	0.7546	y : : :	0.7546	0.7546	0.0000	10,808.85 49	10,808.85 49	0.2072	0.1982	10,873.08 65

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr		tons/yr											MT	/yr		
General Office Building	6.12369e +006	0.0330	0.3002	0.2522	1.8000e- 003		0.0228	0.0228		0.0228	0.0228	0.0000	326.7834	326.7834	6.2600e- 003	5.9900e- 003	328.7253
Industrial Park	2.71601e +007	0.1465	1.3314	1.1184	7.9900e- 003		0.1012	0.1012		0.1012	0.1012	0.0000	1,449.368 5	1,449.368 5	0.0278	0.0266	1,457.981 4
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.1999e +007	0.0647	0.5882	0.4941	3.5300e- 003		0.0447	0.0447		0.0447	0.0447	0.0000	640.3139	640.3139	0.0123	0.0117	644.1190
Single Family Housing	1.57267e +008	0.8480	7.2466	3.0837	0.0463		0.5859	0.5859		0.5859	0.5859	0.0000	8,392.389 0	8,392.389 0	0.1609	0.1539	8,442.260 8
Total		1.0922	9.4664	4.9483	0.0596		0.7546	0.7546		0.7546	0.7546	0.0000	10,808.85 49	10,808.85 49	0.2072	0.1982	10,873.08 65

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# **5.2 Energy by Land Use - NaturalGas Mitigated**

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr		tons/yr											MT	/yr		
General Office Building	6.12369e +006	0.0330	0.3002	0.2522	1.8000e- 003		0.0228	0.0228	,   	0.0228	0.0228	0.0000	326.7834	326.7834	6.2600e- 003	5.9900e- 003	328.7253
Industrial Park	2.71601e +007	0.1465	1.3314	1.1184	7.9900e- 003		0.1012	0.1012	,       	0.1012	0.1012	0.0000	1,449.368 5	1,449.368 5	0.0278	0.0266	1,457.981 4
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.1999e +007	0.0647	0.5882	0.4941	3.5300e- 003		0.0447	0.0447	,	0.0447	0.0447	0.0000	640.3139	640.3139	0.0123	0.0117	644.1190
Single Family Housing	1.57267e +008	0.8480	7.2466	3.0837	0.0463		0.5859	0.5859		0.5859	0.5859	0.0000	8,392.389 0	8,392.389 0	0.1609	0.1539	8,442.260 8
Total		1.0922	9.4664	4.9483	0.0596		0.7546	0.7546		0.7546	0.7546	0.0000	10,808.85 49	10,808.85 49	0.2072	0.1982	10,873.08 65

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
General Office Building	1.71253e +007	5,456.480 0	0.2253	0.0466	5,476.000 8
Industrial Park	7.5955e +007	24,200.89 16	0.9991	0.2067	24,287.47 10
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.00033e +007	22,304.55 44	0.9208	0.1905	22,384.34 97
Single Family Housing	3.96787e +007	12,642.48 29	0.5219	0.1080	12,687.711 7
Total		64,604.40 89	2.6672	0.5518	64,835.53 31

### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 5.3 Energy by Land Use - Electricity <u>Mitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
General Office Building	1.71253e +007	5,456.480 0	0.2253	0.0466	5,476.000 8
Industrial Park	7.5955e +007	24,200.89 16	0.9991	0.2067	24,287.47 10
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.00033e +007	22,304.55 44	0.9208	0.1905	22,384.34 97
Single Family Housing	3.96787e +007	12,642.48 29	0.5219	0.1080	12,687.711 7
Total		64,604.40 89	2.6672	0.5518	64,835.53 31

### 6.0 Area Detail

### **6.1 Mitigation Measures Area**

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	√yr		
Mitigated	384.4254	5.5538	359.6530	0.5961		46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321 2	4.0879	0.3442	6,467.081 8
Unmitigated	384.4254	5.5538	359.6530	0.5961	i	46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321 2	4.0879	0.3442	6,467.081 8

# 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr												MT	/yr		
Architectural Coating	29.3615			1 1	1 1	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	88.3149		i i	     		0.0000	0.0000	       	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	265.7929	5.1906	328.0924	0.5944		46.0017	46.0017	       	46.0017	46.0017	4,375.608 8	1,835.066 5	6,210.675 4	4.0380	0.3442	6,414.188 4
Landscaping	0.9561	0.3632	31.5606	1.6700e- 003		0.1749	0.1749	       	0.1749	0.1749	0.0000	51.6459	51.6459	0.0499	0.0000	52.8933
Total	384.4254	5.5538	359.6530	0.5961		46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321	4.0879	0.3442	6,467.081 8

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

# 6.2 Area by SubCategory

# <u>Mitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr												MT	/yr		
Architectural Coating	29.3615					0.0000	0.0000	! !	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	88.3149		i i			0.0000	0.0000	i i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	265.7929	5.1906	328.0924	0.5944		46.0017	46.0017	i i	46.0017	46.0017	4,375.608 8	1,835.066 5	6,210.675 4	4.0380	0.3442	6,414.188 4
Landscaping	0.9561	0.3632	31.5606	1.6700e- 003		0.1749	0.1749	Y ! ! !	0.1749	0.1749	0.0000	51.6459	51.6459	0.0499	0.0000	52.8933
Total	384.4254	5.5538	359.6530	0.5961		46.1765	46.1765		46.1765	46.1765	4,375.608 8	1,886.712 4	6,262.321	4.0879	0.3442	6,467.081 8

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category		MT	√yr	
	14,599.89 44	91.3502	2.2608	17,557.35 81
	14,599.89 44	91.3502	2.2608	17,557.35 81

# 7.2 Water by Land Use Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	311.859 / 191.139	2,069.379 2	10.2433	0.2568	2,401.980 1
Industrial Park	1799.65 / 0	8,037.278 8	58.9499	1.4484	9,942.657 7
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center		2,644.724 7	13.0912	0.3282	3,069.798 1
Single Family Housing	275.992 / 173.995	1,848.5117	9.0659	0.2274	2,142.922 2
Total		14,599.89 44	91.3502	2.2608	17,557.35 81

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7.2 Water by Land Use

### **Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	311.859 / 191.139	2,069.379 2	10.2433	0.2568	2,401.980 1
Industrial Park	1799.65 / 0	8,037.278 8	58.9499	1.4484	9,942.657 7
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	398.564 / 244.281	2,644.724 7	13.0912	0.3282	3,069.798 1
Single Family Housing	275.992 / 173.995	1,848.5117	9.0659	0.2274	2,142.922 2
Total		14,599.89 44	91.3502	2.2608	17,557.35 81

# 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

### Category/Year

	Total CO2	CH4	N2O	CO2e	
	MT/yr				
	4,445.248 4	262.7067	0.0000	11,012.914 6	
"	4,445.248 4	262.7067	0.0000	11,012.914 6	

# 8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1631.82	331.2447	19.5760	0.0000	820.6448
Industrial Park	9650.01	1,958.864 8	115.7656	0.0000	4,853.004 7
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	5649.77	1,146.852 3	67.7770	0.0000	2,841.277 9
Single Family Housing	4967.15	1,008.286 6	59.5880	0.0000	2,497.987 3
Total		4,445.248 3	262.7067	0.0000	11,012.91 46

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Annual

### 8.2 Waste by Land Use

### **Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1631.82	331.2447	19.5760	0.0000	820.6448
Industrial Park	9650.01	1,958.864 8	115.7656	0.0000	4,853.004 7
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	5649.77	1,146.852 3	67.7770	0.0000	2,841.277 9
Single Family Housing	4967.15	1,008.286 6	59.5880	0.0000	2,497.987 3
Total		4,445.248 3	262.7067	0.0000	11,012.91 46

# 9.0 Operational Offroad

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

# **10.0 Stationary Equipment**

# **Fire Pumps and Emergency Generators**

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

### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

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### **User Defined Equipment**

Equipment Type	Number
1.1	

# 11.0 Vegetation

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2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 2008 Annexation Re-Run San Bernardino-Mojave Desert County, Summer

### 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4,236.00	Dwelling Unit	1,091.60	7,624,800.00	12115
General Office Building	1,754.64	1000sqft	183.10	1,754,639.00	0
Regional Shopping Center	5,380.73	1000sqft	590.00	5,380,731.00	0
Industrial Park	7,782.27	1000sqft	812.10	7,782,275.00	0
Other Asphalt Surfaces	97.80	Acre	97.80	4,260,168.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Ed	ison			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Original 2008 Annexation land use breakdown, including street ROW.

Construction Phase - GP Buildout is 2025.

Off-road Equipment -

Vehicle Trips - Same trip rates used for 2017 annexation for comparison.

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	BuildingSpaceSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	BuildingSpaceSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LandUseSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	LandUseSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	LandUseSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LotAcreage	1,375.32	1,091.60
tblLandUse	LotAcreage	40.28	183.10
tblLandUse	LotAcreage	123.52	590.00
tblLandUse	LotAcreage	178.66	812.10
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

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tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# **2.0 Emissions Summary**

### 2.1 Overall Construction (Maximum Daily Emission)

### **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2017	688.4098	3.4098 735.4654 755.0600 2.2179 177.5010 16.0194 193.5203 48.0225 14.9624 177.5010 676.3245 669.8023 2.1873 177.5005 13.6146 191.1151 48.0223 12.7082										226,843.6 523	226,843.6 523	17.3220	0.0000	227,276.7 008
2018	677.2430	676.3245	669.8023	2.1873	177.5005	13.6146	191.1151	48.0223	12.7082	60.7306	0.0000	223,660.61 16	223,660.61 16	16.4273	0.0000	224,071.2 941
2019	669.0836	629.1237	604.1211	2.1431	177.5001	12.1531	189.6532	48.0222	11.3363	59.3585	0.0000	219,036.3 166	219,036.3 166	15.7991	0.0000	219,431.2 942
2020	661.7779	576.1049	551.0148	2.1062	177.4996	10.4477	187.9473	48.0220	9.7272	57.7492	0.0000	215,052.5 787	215,052.5 787	15.0856	0.0000	215,429.7 174
2021	655.8361	528.4940	510.6978	2.0716	177.4992	8.5179	186.0171	48.0218	7.9004	55.9223	0.0000	211,642.31 15	211,642.31 15	14.5820	0.0000	212,006.8 617
Maximum	688.4098	735.4654	755.0600	2.2179	177.5010	16.0194	193.5203	48.0225	14.9624	62.9849	0.0000	226,843.6 523	226,843.6 523	17.3220	0.0000	227,276.7 008

### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

### 2.1 Overall Construction (Maximum Daily Emission)

### **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb/	day		
2017	688.4098	735.4654	755.0600	2.2179	177.5010	16.0194	193.5203	48.0225	14.9624	62.9849	0.0000	226,843.6 523	226,843.6 523	17.3220	0.0000	227,276.7 008
2018	677.2430	676.3245	669.8023	2.1873	177.5005	13.6146	191.1151	48.0223	12.7082	60.7306	0.0000	223,660.6 116	223,660.61 16	16.4273	0.0000	224,071.2 941
2019	669.0836	629.1237	604.1211	2.1431	177.5001	12.1531	189.6532	48.0222	11.3363	59.3585	0.0000	219,036.3 166	219,036.3 166	15.7991	0.0000	219,431.2 942
2020	661.7779	576.1049	551.0148	2.1062	177.4996	10.4477	187.9473	48.0220	9.7272	57.7492	0.0000	215,052.5 787	215,052.5 787	15.0856	0.0000	215,429.7 174
2021	655.8361	528.4940	510.6978	2.0716	177.4992	8.5179	186.0171	48.0218	7.9004	55.9223	0.0000	211,642.3 115	211,642.31 15	14.5820	0.0000	212,006.8 616
Maximum	688.4098	735.4654	755.0600	2.2179	177.5010	16.0194	193.5203	48.0225	14.9624	62.9849	0.0000	226,843.6 523	226,843.6 523	17.3220	0.0000	227,276.7 008
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Demont	0.00	0.00	0.00	0.00							0.00	0.00	0.00	0.00	0.00	0.00
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.0 514	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Energy	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348	1   	4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
Mobile	724.8482	4,281.416 2	10,256.72 89	46.1900	3,854.293 4	26.4543	3,880.747 7	1,031.1161	24.6409	1,055.7570		4,719,305. 7530	4,719,305. 7530	184.9886		4,723,930. 4677
Total	7,869.011 7	4,463.923 1	18,636.77 05	61.0329	3,854.293 4	1,154.524 2	5,008.817 6	1,031.116 1	1,152.710 8	2,183.8269	117,641.0 514	4,834,561. 4012	4,952,202. 4525	295.4142	10.4503	4,962,701. 9882

### **Mitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Energy	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
Mobile	724.8482	4,281.416 2	10,256.72 89	46.1900	3,854.293 4	26.4543	3,880.747 7	1,031.1161	24.6409	1,055.7570		4,719,305. 7530	4,719,305. 7530	184.9886		4,723,930. 4677
Total	7,869.011 7	4,463.923 1	18,636.77 05	61.0329	3,854.293 4	1,154.524 2	5,008.817 6	1,031.116 1	1,152.710 8	2,183.8269	117,641.0 514	4,834,561. 4012	4,952,202. 4525	295.4142	10.4503	4,962,701. 9882

#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/1/2017	8/31/2021	5	1000	
2	Building Construction	Building Construction	11/1/2017	8/31/2021	5	1000	
3	Demolition	Demolition	11/1/2017	8/31/2021	5	1000	
4	Grading	Grading	11/1/2017	8/31/2021	5	1000	
5	Paving	Paving	11/1/2017	8/31/2021	5	1000	
6	Site Preparation	Site Preparation	11/1/2017	8/31/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 97.8

Residential Indoor: 15,440,220; Residential Outdoor: 5,146,740; Non-Residential Indoor: 22,376,468; Non-Residential Outdoor: 7,458,823;

Striped Parking Area: 255,610 (Architectural Coating - sqft)

### OffRoad Equipment

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2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1,773.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	8,866.00	3,596.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

# **3.1 Mitigation Measures Construction**

# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000	! !	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	,	0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	587.5620	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2017 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	10.5304	6.9648	86.7462	0.1641	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		16,294.66 12	16,294.66 12	0.6781		16,311.61 40
Total	10.5304	6.9648	86.7462	0.1641	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		16,294.66 12	16,294.66 12	0.6781		16,311.61 40

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	 	0.1733	0.1733	0.0000	281.4481	281.4481	0.0297	 	282.1909
Total	587.5620	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	10.5304	6.9648	86.7462	0.1641	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		16,294.66 12	16,294.66 12	0.6781	       	16,311.614 0
Total	10.5304	6.9648	86.7462	0.1641	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		16,294.66 12	16,294.66 12	0.6781		16,311.61 40

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506	 	0.1506	0.1506		281.4485	281.4485	0.0267	i i	282.1171
Total	587.5283	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.4119	6.0638	75.9684	0.1594	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		15,842.94 22	15,842.94 22	0.5949		15,857.81 53
Total	9.4119	6.0638	75.9684	0.1594	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		15,842.94 22	15,842.94 22	0.5949		15,857.81 53

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506	 	0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	587.5283	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.4119	6.0638	75.9684	0.1594	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		15,842.94 22	15,842.94 22	0.5949		15,857.81 53
Total	9.4119	6.0638	75.9684	0.1594	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		15,842.94 22	15,842.94 22	0.5949		15,857.81 53

# 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	587.4962	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	8.5534	5.3296	67.3521	0.1539	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		15,305.45 85	15,305.45 85	0.5229	       	15,318.52 98
Total	8.5534	5.3296	67.3521	0.1539	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		15,305.45 85	15,305.45 85	0.5229		15,318.52 98

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003	 	0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	587.4962	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.5534	5.3296	67.3521	0.1539	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		15,305.45 85	15,305.45 85	0.5229		15,318.52 98
Total	8.5534	5.3296	67.3521	0.1539	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		15,305.45 85	15,305.45 85	0.5229		15,318.52 98

# 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	587.4719	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.8689	4.7318	60.7390	0.1490	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		14,829.05 15	14,829.05 15	0.4611		14,840.57 81
Total	7.8689	4.7318	60.7390	0.1490	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		14,829.05 15	14,829.05 15	0.4611		14,840.57 81

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003	 	0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	 	281.9928
Total	587.4719	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	, ! ! !	0.0000			
Worker	7.8689	4.7318	60.7390	0.1490	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		14,829.05 15	14,829.05 15	0.4611	; ! ! !	14,840.57 81			
Total	7.8689	4.7318	60.7390	0.1490	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		14,829.05 15	14,829.05 15	0.4611		14,840.57 81			

# 3.2 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000			
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309			
Total	587.4486	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309			

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	7.3182	4.2399	55.8666	0.1442	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		14,356.77 80	14,356.77 80	0.4159		14,367.17 63	
Total	7.3182	4.2399	55.8666	0.1442	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		14,356.77 80	14,356.77 80	0.4159		14,367.17 63	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000			
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941	 	0.0941	0.0941	0.0000	281.4481	281.4481	0.0193	 	281.9309			
Total	587.4486	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309			

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.3182	4.2399	55.8666	0.1442	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		14,356.77 80	14,356.77 80	0.4159		14,367.17 63
Total	7.3182	4.2399	55.8666	0.1442	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		14,356.77 80	14,356.77 80	0.4159		14,367.17 63

# 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	17.1274	480.9857	110.8743	1.0355	24.3627	4.0993	28.4621	7.0145	3.9217	10.9362		109,014.3 508	109,014.3 508	7.6195		109,204.8 391
Worker	52.6579	34.8279	433.7798	0.8205	72.8321	0.5423	73.3744	19.3185	0.5003	19.8187		81,482.49 64	81,482.49 64	3.3909		81,567.26 98
Total	69.7853	515.8136	544.6542	1.8560	97.1948	4.6416	101.8364	26.3330	4.4219	30.7549		190,496.8 472	190,496.8 472	11.0105		190,772.1 088

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	17.1274	480.9857	110.8743	1.0355	24.3627	4.0993	28.4621	7.0145	3.9217	10.9362		109,014.3 508	109,014.3 508	7.6195		109,204.8 391
Worker	52.6579	34.8279	433.7798	0.8205	72.8321	0.5423	73.3744	19.3185	0.5003	19.8187		81,482.49 64	81,482.49 64	3.3909		81,567.26 98
Total	69.7853	515.8136	544.6542	1.8560	97.1948	4.6416	101.8364	26.3330	4.4219	30.7549		190,496.8 472	190,496.8 472	11.0105		190,772.1 088

# 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	14.9259	450.7457	96.9345	1.0332	24.3623	3.2283	27.5906	7.0143	3.0883	10.1026		108,842.1 062	108,842.1 062	7.2480		109,023.3 064
Worker	47.0647	30.3226	379.8850	0.7970	72.8321	0.5221	73.3542	19.3185	0.4812	19.7997		79,223.64 65	79,223.64 65	2.9750		79,298.02 08
Total	61.9906	481.0683	476.8195	1.8303	97.1944	3.7504	100.9448	26.3328	3.5696	29.9023		188,065.7 527	188,065.7 527	10.2230		188,321.3 272

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2018 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	14.9259	450.7457	96.9345	1.0332	24.3623	3.2283	27.5906	7.0143	3.0883	10.1026		108,842.1 062	108,842.1 062	7.2480	     	109,023.3 064
Worker	47.0647	30.3226	379.8850	0.7970	72.8321	0.5221	73.3542	19.3185	0.4812	19.7997		79,223.64 65	79,223.64 65	2.9750	     	79,298.02 08
Total	61.9906	481.0683	476.8195	1.8303	97.1944	3.7504	100.9448	26.3328	3.5696	29.9023		188,065.7 527	188,065.7 527	10.2230		188,321.3 272

## 3.3 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	13.2753	422.9048	86.2175	1.0223	24.3618	2.7315	27.0933	7.0141	2.6130	9.6272		107,754.5 194	107,754.5 194	7.0763		107,931.4 272
Worker	42.7716	26.6508	336.7986	0.7695	72.8321	0.5056	73.3376	19.3185	0.4657	19.7841		76,535.92 49	76,535.92 49	2.6146		76,601.28 89
Total	56.0469	449.5556	423.0161	1.7918	97.1939	3.2370	100.4309	26.3326	3.0787	29.4113		184,290.4 443	184,290.4 443	9.6909		184,532.7 161

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	13.2753	422.9048	86.2175	1.0223	24.3618	2.7315	27.0933	7.0141	2.6130	9.6272		107,754.5 194	107,754.5 194	7.0763		107,931.4 272
Worker	42.7716	26.6508	336.7986	0.7695	72.8321	0.5056	73.3376	19.3185	0.4657	19.7841		76,535.92 49	76,535.92 49	2.6146		76,601.28 89
Total	56.0469	449.5556	423.0161	1.7918	97.1939	3.2370	100.4309	26.3326	3.0787	29.4113		184,290.4 443	184,290.4 443	9.6909		184,532.7 161

## 3.3 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	11.2149	386.7790	75.6599	1.0149	24.3614	1.8419	26.2033	7.0140	1.7620	8.7759		107,020.2 496	107,020.2 496	6.7504		107,189.0 086
Worker	39.3490	23.6614	303.7292	0.7451	72.8321	0.4927	73.3248	19.3185	0.4537	19.7722		74,153.62 15	74,153.62 15	2.3056		74,211.260 8
Total	50.5639	410.4404	379.3891	1.7600	97.1935	2.3346	99.5281	26.3324	2.2157	28.5481		181,173.8 712	181,173.8 712	9.0559		181,400.2 693

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	11.2149	386.7790	75.6599	1.0149	24.3614	1.8419	26.2033	7.0140	1.7620	8.7759		107,020.2 496	107,020.2 496	6.7504		107,189.0 086
Worker	39.3490	23.6614	303.7292	0.7451	72.8321	0.4927	73.3248	19.3185	0.4537	19.7722		74,153.62 15	74,153.62 15	2.3056		74,211.26 08
Total	50.5639	410.4404	379.3891	1.7600	97.1935	2.3346	99.5281	26.3324	2.2157	28.5481		181,173.8 712	181,173.8 712	9.0559		181,400.2 693

#### 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.5361	352.6742	66.6802	1.0092	24.3610	0.6256	24.9866	7.0138	0.5983	7.6121		106,460.2 512	106,460.2 512	6.5313	       	106,623.5 344
Worker	36.5953	21.2017	279.3646	0.7211	72.8321	0.4809	73.3130	19.3185	0.4428	19.7613		71,791.98 76	71,791.98 76	2.0799	       	71,843.98 50
Total	46.1314	373.8759	346.0448	1.7303	97.1931	1.1065	98.2996	26.3323	1.0411	27.3734		178,252.2 388	178,252.2 388	8.6112		178,467.5 194

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.5361	352.6742	66.6802	1.0092	24.3610	0.6256	24.9866	7.0138	0.5983	7.6121		106,460.2 512	106,460.2 512	6.5313		106,623.5 344
Worker	36.5953	21.2017	279.3646	0.7211	72.8321	0.4809	73.3130	19.3185	0.4428	19.7613		71,791.98 76	71,791.98 76	2.0799	     	71,843.98 50
Total	46.1314	373.8759	346.0448	1.7303	97.1931	1.1065	98.2996	26.3323	1.0411	27.3734		178,252.2 388	178,252.2 388	8.6112		178,467.5 194

#### 3.4 Demolition - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283	1.0730		3,951.107 0

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283	1.0730		3,951.107 0

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

#### 3.4 Demolition - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

#### 3.4 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949	1 1	1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003	       	129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003	       	129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

#### 3.4 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2020
Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003	       	121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

# 3.5 Grading - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.886 3	6,344.886 3	1.9441	i i	6,393.487 9
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744		6,344.886 3	6,344.886 3	1.9441		6,393.487 9

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002
Total	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		! !	0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.886 3	6,344.886 3	1.9441	,	6,393.487 8
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744	0.0000	6,344.886 3	6,344.886 3	1.9441		6,393.487 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002
Total	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002

# 3.5 Grading - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000		 	0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440	 	6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

# 3.5 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620	     	2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust	ii ii				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

# 3.5 Grading - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424	 	6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

# 3.5 Grading - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	 	1.9853	1.9853	 	1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428	i i	6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428	i ! !	6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

3.6 Paving - 2017

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.2562				 	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2011	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.2562	 				0.0000	0.0000		0.0000	0.0000		i i	0.0000			0.0000
Total	2.2011	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

# 3.6 Paving - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2
Paving	0.2562	 				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8999	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.2562	   				0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.8999	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000	 		0.0000
Total	1.7107	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003	·	129.5984

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.2562		i i		       	0.0000	0.0000		0.0000	0.0000			0.0000		; ! ! !	0.0000
Total	1.7107	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

3.6 Paving - 2020
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.2562				 	0.0000	0.0000	       	0.0000	0.0000			0.0000			0.0000
Total	1.6128	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733	0.7140		2,225.584 1

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.2562					0.0000	0.0000	 	0.0000	0.0000			0.0000		       	0.0000
Total	1.6128	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

3.6 Paving - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000	 		0.0000
Total	1.5118	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.2562	1 1 1	i i			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5118	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

## 3.7 Site Preparation - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	: : :				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001
Total	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.950 0	3,894.950 0	1.1934	       	3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001
Total	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001

## 3.7 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928	i i	3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

## 3.7 Site Preparation - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917		3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904	 	2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	 	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181

## 3.7 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974	 	2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918	i i	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918	       	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

## 3.7 Site Preparation - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445	 	1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	       	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	724.8482	4,281.416 2	10,256.72 89	46.1900	3,854.293 4	26.4543	3,880.747 7	1,031.1161	24.6409	1,055.7570		4,719,305. 7530	4,719,305. 7530	184.9886		4,723,930. 4677
Unmitigated	724.8482	4,281.416 2	10,256.72 89	46.1900	3,854.293 4	26.4543	3,880.747 7	1,031.116 1	24.6409	1,055.7570	,	4,719,305. 7530	4,719,305. 7530	184.9886		4,723,930. 4677

## **4.2 Trip Summary Information**

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	17,090.19	4,316.41	1842.37	31,274,953	31,274,953
Industrial Park	38,600.06	19,377.85	5681.06	949,670,518	949,670,518
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	203,122.56	268,875.08	135809.63	355,744,921	355,744,921
Single Family Housing	41,258.64	41,978.76	36514.32	115,546,745	115,546,745
Total	300,071.45	334,548.10	179,847.37	1,452,237,136	1,452,237,136

## 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Other Asphalt Surfaces	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
NaturalGas Mitigated	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
NaturalGas Unmitigated	5.9846	51.8706	27.1138	0.3264	1	4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.11 62

# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	16777.2	0.1809	1.6448	1.3817	9.8700e- 003		0.1250	0.1250		0.1250	0.1250		1,973.792 1	1,973.792 1	0.0378	0.0362	1,985.521 4
Industrial Park	74411.3	0.8025	7.2952	6.1280	0.0438		0.5544	0.5544		0.5544	0.5544		8,754.275 5	8,754.275 5	0.1678	0.1605	8,806.297 8
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	32874.1	0.3545	3.2230	2.7073	0.0193		0.2449	0.2449		0.2449	0.2449		3,867.535 9	3,867.535 9	0.0741	0.0709	3,890.518 7
Single Family Housing	430870	4.6466	39.7076	16.8969	0.2535		3.2104	3.2104		3.2104	3.2104		50,690.54 97	50,690.54 97	0.9716	0.9293	50,991.77 83
Total		5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.11 62

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 5.2 Energy by Land Use - NaturalGas

### **Mitigated**

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	16.7772	0.1809	1.6448	1.3817	9.8700e- 003		0.1250	0.1250	! !	0.1250	0.1250		1,973.792 1	1,973.792 1	0.0378	0.0362	1,985.521 4
Industrial Park	74.4113	0.8025	7.2952	6.1280	0.0438		0.5544	0.5544	,	0.5544	0.5544		8,754.275 5	8,754.275 5	0.1678	0.1605	8,806.297 8
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	,	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	32.8741	0.3545	3.2230	2.7073	0.0193		0.2449	0.2449	,	0.2449	0.2449		3,867.535 9	3,867.535 9	0.0741	0.0709	3,890.518 7
Single Family Housing	430.87	4.6466	39.7076	16.8969	0.2535		3.2104	3.2104	,	3.2104	3.2104		50,690.54 97	50,690.54 97	0.9716	0.9293	50,991.77 83
Total		5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.11 62

#### 6.0 Area Detail

## **6.1 Mitigation Measures Area**

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Mitigated	7,138.178 9	130.6363	8,352.927 9	14.5164	 	1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Unmitigated	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

## 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory		lb/day									lb/day					
Architectural Coating	160.8849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	483.9173		1 1 1			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,482.753 1	126.6007	8,002.254 5	14.4978		1,121.992 4	1,121.992 4		1,121.992 4	1,121.9924	117,641.0 514	49,336.94 12	166,977.9 926	108.5632	9.2534	172,449.5 720
Landscaping	10.6237	4.0356	350.6733	0.0186		1.9427	1.9427	<del></del>	1.9427	1.9427		632.5537	632.5537	0.6111		647.8323
Total	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.0 514	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Summer

# 6.2 Area by SubCategory

#### **Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day									lb/day						
Architectural Coating	160.8849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	483.9173		i i			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,482.753 1	126.6007	8,002.254 5	14.4978		1,121.992 4	1,121.992 4		1,121.992 4	1,121.9924	117,641.0 514	49,336.94 12	166,977.9 926	108.5632	9.2534	172,449.5 720
Landscaping	10.6237	4.0356	350.6733	0.0186		1.9427	1.9427		1.9427	1.9427		632.5537	632.5537	0.6111		647.8323
Total	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.0 514	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

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

# 10.0 Stationary Equipment

### **Fire Pumps and Emergency Generators**

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

#### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

### **User Defined Equipment**

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

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2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 2008 Annexation Re-Run San Bernardino-Mojave Desert County, Winter

#### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4,236.00	Dwelling Unit	1,091.60	7,624,800.00	12115
General Office Building	1,754.64	1000sqft	183.10	1,754,639.00	0
Regional Shopping Center	5,380.73	1000sqft	590.00	5,380,731.00	0
Industrial Park	7,782.27	1000sqft	812.10	7,782,275.00	0
Other Asphalt Surfaces	97.80	Acre	97.80	4,260,168.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California	Edison			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Original 2008 Annexation land use breakdown, including street ROW.

Construction Phase - GP Buildout is 2025.

Off-road Equipment -

Vehicle Trips - Same trip rates used for 2017 annexation for comparison.

2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblConstructionPhase	PhaseEndDate	10/31/2017	8/31/2021
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	BuildingSpaceSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	BuildingSpaceSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LandUseSquareFeet	1,754,640.00	1,754,639.00
tblLandUse	LandUseSquareFeet	5,380,730.00	5,380,731.00
tblLandUse	LandUseSquareFeet	7,782,270.00	7,782,275.00
tblLandUse	LotAcreage	1,375.32	1,091.60
tblLandUse	LotAcreage	40.28	183.10
tblLandUse	LotAcreage	123.52	590.00
tblLandUse	LotAcreage	178.66	812.10
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00

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tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# **2.0 Emissions Summary**

# 2.1 Overall Construction (Maximum Daily Emission)

#### **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	687.6122	737.1576	684.4815	2.0794	177.5010	16.0678	193.5687	48.0225	15.0087	63.0312	0.0000	212,891.8 236	212,891.8 236	17.5796	0.0000	213,331.3 121
2018	676.5317	676.8699	608.2129	2.0506	177.5005	13.6537	191.1542	48.0223	12.7456	60.7679	0.0000	209,876.3 978	209,876.3 978	16.7384	0.0000	210,294.8 568
2019	668.5044	628.8654	549.9252	2.0098	177.5001	12.1874	189.6874	48.0222	11.3691	59.3913	0.0000	205,579.7 750	205,579.7 750	16.1578	0.0000	205,983.7 188
2020	661.3237	574.8655	501.9319	1.9760	177.4996	10.4698	187.9694	48.0220	9.7483	57.7703	0.0000	201,886.9 450	201,886.9 450	15.4695	0.0000	202,273.6 808
2021	655.4829	526.4085	465.1743	1.9446	177.4992	8.5345	186.0337	48.0218	7.9163	55.9381	0.0000	198,789.4 405	198,789.4 405	14.9925	0.0000	199,164.2 533
Maximum	687.6122	737.1576	684.4815	2.0794	177.5010	16.0678	193.5687	48.0225	15.0087	63.0312	0.0000	212,891.8 236	212,891.8 236	17.5796	0.0000	213,331.3 121

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

### 2.1 Overall Construction (Maximum Daily Emission)

### **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb	/day		
2017	687.6122	737.1576	684.4815	2.0794	177.5010	16.0678	193.5687	48.0225	15.0087	63.0312	0.0000	212,891.8 236	212,891.8 236	17.5796	0.0000	213,331.3 121
2018	676.5317	676.8699	608.2129	2.0506	177.5005	13.6537	191.1542	48.0223	12.7456	60.7679	0.0000	209,876.3 978	209,876.3 978	16.7384	0.0000	210,294.8 568
2019	668.5044	628.8654	549.9252	2.0098	177.5001	12.1874	189.6874	48.0222	11.3691	59.3913	0.0000	205,579.7 750	205,579.7 750	16.1578	0.0000	205,983.7 188
2020	661.3237	574.8655	501.9319	1.9760	177.4996	10.4698	187.9694	48.0220	9.7483	57.7703	0.0000	201,886.9 450	201,886.9 450	15.4695	0.0000	202,273.6 808
2021	655.4829	526.4085	465.1743	1.9446	177.4992	8.5345	186.0337	48.0218	7.9163	55.9381	0.0000	198,789.4 405	198,789.4 405	14.9925	0.0000	199,164.2 533
Maximum	687.6122	737.1576	684.4815	2.0794	177.5010	16.0678	193.5687	48.0225	15.0087	63.0312	0.0000	212,891.8 236	212,891.8 236	17.5796	0.0000	213,331.3 121
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Energy	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
Mobile	636.9453	4,305.367 8	8,781.413 2	42.7232	3,854.293 4	26.5523	3,880.845 7	1,031.1161	24.7347	1,055.8508		4,371,454. 1805	4,371,454. 1805	185.5325		4,376,092. 4929
Total	7,781.108 8	4,487.874 6	17,161.45 49	57.5660	3,854.293 4	1,154.622 2	5,008.915 6	1,031.116 1	1,152.804 6	2,183.9207	117,641.0 514	4,486,709. 8286	4,604,350. 8800	295.9581	10.4503	4,614,864. 0134

### **Mitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Energy	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
Mobile	636.9453	4,305.367 8	8,781.413 2	42.7232	3,854.293 4	26.5523	3,880.845 7	1,031.1161	24.7347	1,055.8508		4,371,454. 1805	4,371,454. 1805	185.5325		4,376,092. 4929
Total	7,781.108 8	4,487.874 6	17,161.45 49	57.5660	3,854.293 4	1,154.622 2	5,008.915 6	1,031.116 1	1,152.804 6	2,183.9207	117,641.0 514	4,486,709. 8286	4,604,350. 8800	295.9581	10.4503	4,614,864. 0134

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/1/2017	8/31/2021	5	1000	
2	Building Construction	Building Construction	11/1/2017	8/31/2021	5	1000	
3	Demolition	Demolition	11/1/2017	8/31/2021	5	1000	
4	Grading	Grading	11/1/2017	8/31/2021	5	1000	
5	Paving	Paving	11/1/2017	8/31/2021	5	1000	
6	Site Preparation	Site Preparation	11/1/2017	8/31/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 97.8

Residential Indoor: 15,440,220; Residential Outdoor: 5,146,740; Non-Residential Indoor: 22,376,468; Non-Residential Outdoor: 7,458,823;

Striped Parking Area: 255,610 (Architectural Coating – sqft)

#### OffRoad Equipment

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			-	-	
Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	! 1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	! 1	8.00	84	0.74
Grading	Graders	! 1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	! 1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	<del></del> 1	8.00	46	0.45

**Trips and VMT** 

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1,773.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	8,866.00	3,596.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

# 3.2 Architectural Coating - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000	! !	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	,	0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	587.5620	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	10.2789	7.3485	72.8343	0.1473	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		14,629.95 18	14,629.95 18	0.6034		14,645.03 66
Total	10.2789	7.3485	72.8343	0.1473	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		14,629.95 18	14,629.95 18	0.6034		14,645.03 66

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000		!	0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297	,	282.1909
Total	587.5620	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	10.2789	7.3485	72.8343	0.1473	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		14,629.95 18	14,629.95 18	0.6034		14,645.03 66
Total	10.2789	7.3485	72.8343	0.1473	14.5648	0.1084	14.6732	3.8633	0.1000	3.9633		14,629.95 18	14,629.95 18	0.6034		14,645.03 66

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506	       	0.1506	0.1506		281.4485	281.4485	0.0267	       	282.1171
Total	587.5283	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1810	6.3901	63.6065	0.1430	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		14,221.16 68	14,221.16 68	0.5275		14,234.35 53
Total	9.1810	6.3901	63.6065	0.1430	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		14,221.16 68	14,221.16 68	0.5275		14,234.35 53

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	587.5283	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1810	6.3901	63.6065	0.1430	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		14,221.16 68	14,221.16 68	0.5275		14,234.35 53
Total	9.1810	6.3901	63.6065	0.1430	14.5648	0.1044	14.6692	3.8633	0.0962	3.9595		14,221.16 68	14,221.16 68	0.5275		14,234.35 53

# 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	587.4962	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2019 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.3503	5.6127	56.2912	0.1381	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		13,738.04 83	13,738.04 83	0.4627		13,749.61 60
Total	8.3503	5.6127	56.2912	0.1381	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		13,738.04 83	13,738.04 83	0.4627		13,749.61 60

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	587.4962	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.3503	5.6127	56.2912	0.1381	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		13,738.04 83	13,738.04 83	0.4627		13,749.61 60
Total	8.3503	5.6127	56.2912	0.1381	14.5648	0.1011	14.6659	3.8633	0.0931	3.9564		13,738.04 83	13,738.04 83	0.4627		13,749.61 60

# 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003	 	0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218	 	281.9928
Total	587.4719	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	7.6946	4.9799	50.6662	0.1337	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		13,309.96 89	13,309.96 89	0.4078	       	13,320.16 31
Total	7.6946	4.9799	50.6662	0.1337	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		13,309.96 89	13,309.96 89	0.4078		13,320.16 31

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	587.4719	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	     	0.0000
Worker	7.6946	4.9799	50.6662	0.1337	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		13,309.96 89	13,309.96 89	0.4078	       	13,320.16 31
Total	7.6946	4.9799	50.6662	0.1337	14.5648	0.0985	14.6633	3.8633	0.0907	3.9540		13,309.96 89	13,309.96 89	0.4078		13,320.16 31

## 3.2 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193	 	281.9309
Total	587.4486	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	7.1659	4.4605	46.4962	0.1294	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		12,886.68 19	12,886.68 19	0.3679	       	12,895.87 81
Total	7.1659	4.4605	46.4962	0.1294	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		12,886.68 19	12,886.68 19	0.3679		12,895.87 81

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	587.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193	i i i	281.9309
Total	587.4486	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.1659	4.4605	46.4962	0.1294	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		12,886.68 19	12,886.68 19	0.3679		12,895.87 81
Total	7.1659	4.4605	46.4962	0.1294	14.5648	0.0962	14.6609	3.8633	0.0886	3.9518		12,886.68 19	12,886.68 19	0.3679		12,895.87 81

# 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	17.8487	480.3604	124.3085	0.9986	24.3627	4.1477	28.5105	7.0145	3.9680	10.9825		105,115.56 41	105,115.56 41	8.3284		105,323.7 731
Worker	51.4001	36.7469	364.2126	0.7363	72.8321	0.5423	73.3744	19.3185	0.5003	19.8187		73,158.01 05	73,158.01 05	3.0173		73,233.44 28
Total	69.2488	517.1073	488.5211	1.7349	97.1948	4.6900	101.8848	26.3330	4.4682	30.8012		178,273.5 746	178,273.5 746	11.3457		178,557.2 159

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	17.8487	480.3604	124.3085	0.9986	24.3627	4.1477	28.5105	7.0145	3.9680	10.9825		105,115.56 41	105,115.56 41	8.3284	       	105,323.7 731
Worker	51.4001	36.7469	364.2126	0.7363	72.8321	0.5423	73.3744	19.3185	0.5003	19.8187		73,158.01 05	73,158.01 05	3.0173	       	73,233.44 28
Total	69.2488	517.1073	488.5211	1.7349	97.1948	4.6900	101.8848	26.3330	4.4682	30.8012		178,273.5 746	178,273.5 746	11.3457		178,557.2 159

# 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	15.6088	449.3211	109.9978	0.9955	24.3623	3.2674	27.6296	7.0143	3.1257	10.1400		104,851.6 595	104,851.6 595	7.9660		105,050.8 096
Worker	45.9102	31.9540	318.0684	0.7151	72.8321	0.5221	73.3542	19.3185	0.4812	19.7997		71,113.855 0	71,113.855 0	2.6380		71,179.80 50
Total	61.5190	481.2751	428.0661	1.7106	97.1944	3.7895	100.9839	26.3328	3.6069	29.9397		175,965.5 144	175,965.5 144	10.6040		176,230.6 146

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 3.3 Building Construction - 2018 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	15.6088	449.3211	109.9978	0.9955	24.3623	3.2674	27.6296	7.0143	3.1257	10.1400		104,851.6 595	104,851.6 595	7.9660		105,050.8 096
Worker	45.9102	31.9540	318.0684	0.7151	72.8321	0.5221	73.3542	19.3185	0.4812	19.7997		71,113.855 0	71,113.855 0	2.6380		71,179.80 50
Total	61.5190	481.2751	428.0661	1.7106	97.1944	3.7895	100.9839	26.3328	3.6069	29.9397		175,965.5 144	175,965.5 144	10.6040		176,230.6 146

# 3.3 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	13.9224	420.9369	98.8176	0.9846	24.3618	2.7657	27.1275	7.0141	2.6458	9.6599		103,763.4 382	103,763.4 382	7.7982		103,958.3 924
Worker	41.7562	28.0665	281.4877	0.6904	72.8321	0.5056	73.3376	19.3185	0.4657	19.7841		68,697.98 97	68,697.98 97	2.3138		68,755.83 48
Total	55.6786	449.0034	380.3053	1.6750	97.1939	3.2713	100.4652	26.3326	3.1115	29.4441		172,461.4 280	172,461.4 280	10.1120		172,714.2 272

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	13.9224	420.9369	98.8176	0.9846	24.3618	2.7657	27.1275	7.0141	2.6458	9.6599		103,763.4 382	103,763.4 382	7.7982		103,958.3 924
Worker	41.7562	28.0665	281.4877	0.6904	72.8321	0.5056	73.3376	19.3185	0.4657	19.7841		68,697.98 97	68,697.98 97	2.3138		68,755.83 48
Total	55.6786	449.0034	380.3053	1.6750	97.1939	3.2713	100.4652	26.3326	3.1115	29.4441		172,461.4 280	172,461.4 280	10.1120		172,714.2 272

# 3.3 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	11.8136	384.0408	87.4056	0.9772	24.3614	1.8640	26.2254	7.0140	1.7831	8.7971		103,028.2 304	103,028.2 304	7.4561		103,214.6 323
Worker	38.4773	24.9025	253.3597	0.6685	72.8321	0.4927	73.3248	19.3185	0.4537	19.7722		66,557.35 13	66,557.35 13	2.0391		66,608.32 81
Total	50.2908	408.9433	340.7654	1.6457	97.1935	2.3567	99.5502	26.3324	2.2368	28.5692		169,585.5 817	169,585.5 817	9.4952		169,822.9 604

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	11.8136	384.0408	87.4056	0.9772	24.3614	1.8640	26.2254	7.0140	1.7831	8.7971		103,028.2 304	103,028.2 304	7.4561		103,214.6 323
Worker	38.4773	24.9025	253.3597	0.6685	72.8321	0.4927	73.3248	19.3185	0.4537	19.7722		66,557.35 13	66,557.35 13	2.0391		66,608.32 81
Total	50.2908	408.9433	340.7654	1.6457	97.1935	2.3567	99.5502	26.3324	2.2368	28.5692		169,585.5 817	169,585.5 817	9.4952		169,822.9 604

#### 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	10.1030	349.2566	77.7438	0.9717	24.3610	0.6422	25.0032	7.0138	0.6142	7.6280		102,485.1 690	102,485.1 690	7.2322		102,665.9 740
Worker	35.8335	22.3048	232.5073	0.6470	72.8321	0.4809	73.3130	19.3185	0.4428	19.7613		64,440.67 77	64,440.67 77	1.8395		64,486.66 41
Total	45.9364	371.5614	310.2511	1.6187	97.1931	1.1231	98.3162	26.3323	1.0570	27.3892		166,925.8 467	166,925.8 467	9.0717		167,152.6 381

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	10.1030	349.2566	77.7438	0.9717	24.3610	0.6422	25.0032	7.0138	0.6142	7.6280		102,485.1 690	102,485.1 690	7.2322	       	102,665.9 740
Worker	35.8335	22.3048	232.5073	0.6470	72.8321	0.4809	73.3130	19.3185	0.4428	19.7613		64,440.67 77	64,440.67 77	1.8395	       	64,486.66 41
Total	45.9364	371.5614	310.2511	1.6187	97.1931	1.1231	98.3162	26.3323	1.0570	27.3892		166,925.8 467	166,925.8 467	9.0717		167,152.6 381

# 3.4 **Demolition - 2017**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

#### 3.4 **Demolition - 2018**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

#### 3.4 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

#### 3.4 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

# 3.5 Grading - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.886 3	6,344.886 3	1.9441		6,393.487 9
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744		6,344.886 3	6,344.886 3	1.9441		6,393.487 9

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003	     	165.2006
Total	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000		: :	0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.886 3	6,344.886 3	1.9441	i ! !	6,393.487 8
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744	0.0000	6,344.886 3	6,344.886 3	1.9441		6,393.487 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006
Total	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006

# 3.5 Grading - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust	 				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440	,	6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

# 3.5 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620	 	2.3827	2.3827	 	2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426	 	6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

# 3.5 Grading - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620	       	2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424	 	6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

# 3.5 Grading - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	 	1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

# 3.6 Paving - 2017 <u>Unmitigated Construction On-Site</u>

Fugitive PM10 Fugitive PM2.5 Exhaust ROG NOx CO SO2 Exhaust PM10 PM2.5 Total Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e PM10 Total PM2.5 Category lb/day lb/day 2,330.646 2,330.646 0.7141 Off-Road 1.9449 20.7178 15.0320 0.0228 1.1592 1.1592 1.0665 1.0665 2,348.498 8 0.0000 0.2562 0.0000 0.0000 0.0000 0.0000 0.0000 Paving 2.2011 20.7178 15.0320 0.0228 1.1592 1.1592 1.0665 1.0665 2,330.646 2,330.646 0.7141 2,348.498 Total

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.2562	 				0.0000	0.0000		0.0000	0.0000		i	0.0000		       	0.0000
Total	2.2011	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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#### 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

# 3.6 Paving - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.8999	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.2562				       	0.0000	0.0000	       	0.0000	0.0000			0.0000		 	0.0000
Total	1.8999	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.2562				   	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7107	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.2562				   	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7107	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

# 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.2562					0.0000	0.0000		0.0000	0.0000		i i i	0.0000			0.0000
Total	1.6128	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.2562	i i				0.0000	0.0000		0.0000	0.0000		i i i	0.0000			0.0000
Total	1.6128	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

# 3.6 Paving - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.2562	 	1		 	0.0000	0.0000		0.0000	0.0000		       	0.0000	 	i i	0.0000
Total	1.5118	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.2562	 				0.0000	0.0000		0.0000	0.0000		i i i	0.0000			0.0000
Total	1.5118	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

## 3.7 Site Preparation - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806
Total	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380	 	2.8786	2.8786	 	2.6483	2.6483	0.0000	3,894.950 0	3,894.950 0	1.1934	       	3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806
Total	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806

## 3.7 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003	       	144.5112
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	 	2.5769	2.5769	 	2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928	       	3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112

## 3.7 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	: : :				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904	1 1 1	2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917		3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904	 	2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	 	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900

## 3.7 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918	   	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust	 				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918	 	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

## 3.7 Site Preparation - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445	 	1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	 	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	636.9453	4,305.367 8	8,781.413 2	42.7232	3,854.293 4	26.5523	3,880.845 7	1,031.1161	24.7347	1,055.8508		4,371,454. 1805	4,371,454. 1805	185.5325		4,376,092. 4929
Unmitigated	636.9453	4,305.367 8	8,781.413 2	42.7232	3,854.293 4	26.5523	3,880.845 7	1,031.1161	24.7347	1,055.8508	,	4,371,454. 1805	4,371,454. 1805	185.5325	 	4,376,092. 4929

## **4.2 Trip Summary Information**

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	17,090.19	4,316.41	1842.37	31,274,953	31,274,953
Industrial Park	38,600.06	19,377.85	5681.06	949,670,518	949,670,518
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	203,122.56	268,875.08	135809.63	355,744,921	355,744,921
Single Family Housing	41,258.64	41,978.76	36514.32	115,546,745	115,546,745
Total	300,071.45	334,548.10	179,847.37	1,452,237,136	1,452,237,136

## 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Other Asphalt Surfaces	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
NaturalGas Mitigated	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2
NaturalGas Unmitigated	5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.116 2

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	16777.2	0.1809	1.6448	1.3817	9.8700e- 003		0.1250	0.1250	 	0.1250	0.1250		1,973.792 1	1,973.792 1	0.0378	0.0362	1,985.521 4
Industrial Park	74411.3	0.8025	7.2952	6.1280	0.0438		0.5544	0.5544	 	0.5544	0.5544		8,754.275 5	8,754.275 5	0.1678	0.1605	8,806.297 8
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	,	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	32874.1	0.3545	3.2230	2.7073	0.0193		0.2449	0.2449	1	0.2449	0.2449		3,867.535 9	3,867.535 9	0.0741	0.0709	3,890.518 7
Single Family Housing	430870	4.6466	39.7076	16.8969	0.2535		3.2104	3.2104	1 1 1 1	3.2104	3.2104		50,690.54 97	50,690.54 97	0.9716	0.9293	50,991.77 83
Total		5.9846	51.8706	27.1138	0.3264	-	4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.11 62

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 5.2 Energy by Land Use - NaturalGas

## **Mitigated**

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	16.7772	0.1809	1.6448	1.3817	9.8700e- 003		0.1250	0.1250		0.1250	0.1250		1,973.792 1	1,973.792 1	0.0378	0.0362	1,985.521 4
Industrial Park	74.4113	0.8025	7.2952	6.1280	0.0438	       	0.5544	0.5544	,	0.5544	0.5544		8,754.275 5	8,754.275 5	0.1678	0.1605	8,806.297 8
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	,	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	. 02.07 11 1	0.3545	3.2230	2.7073	0.0193	       	0.2449	0.2449	,	0.2449	0.2449		3,867.535 9	3,867.535 9	0.0741	0.0709	3,890.518 7
Single Family Housing	430.87	4.6466	39.7076	16.8969	0.2535		3.2104	3.2104	,	3.2104	3.2104		50,690.54 97	50,690.54 97	0.9716	0.9293	50,991.77 83
Total		5.9846	51.8706	27.1138	0.3264		4.1348	4.1348		4.1348	4.1348		65,286.15 32	65,286.15 32	1.2513	1.1969	65,674.11 62

## 6.0 Area Detail

## **6.1 Mitigation Measures Area**

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Mitigated	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1	 	1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044
Unmitigated	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1	T	1,123.935 1	1,123.9351	117,641.05 14	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

## 6.2 Area by SubCategory

## <u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	160.8849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	483.9173		1 1 1			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,482.753 1	126.6007	8,002.254 5	14.4978		1,121.992 4	1,121.992 4		1,121.992 4	1,121.9924	117,641.05 14	49,336.94 12	166,977.9 926	108.5632	9.2534	172,449.5 720
Landscaping	10.6237	4.0356	350.6733	0.0186		1.9427	1.9427		1.9427	1.9427		632.5537	632.5537	0.6111		647.8323
Total	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.0 514	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

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## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

# 6.2 Area by SubCategory

## **Mitigated**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	160.8849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	483.9173					0.0000	0.0000		0.0000	0.0000		,	0.0000			0.0000
Hearth	6,482.753 1	126.6007	8,002.254 5	14.4978		1,121.992 4	1,121.992 4		1,121.992 4	1,121.9924	117,641.05 14	49,336.94 12	166,977.9 926	108.5632	9.2534	172,449.5 720
Landscaping	10.6237	4.0356	350.6733	0.0186		1.9427	1.9427		1.9427	1.9427		632.5537	632.5537	0.6111		647.8323
Total	7,138.178 9	130.6363	8,352.927 9	14.5164		1,123.935 1	1,123.935 1		1,123.935 1	1,123.9351	117,641.0 514	49,969.49 49	167,610.5 463	109.1743	9.2534	173,097.4 044

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

## **8.1 Mitigation Measures Waste**

## 9.0 Operational Offroad

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

## 2008 Annexation Re-Run - San Bernardino-Mojave Desert County, Winter

## **Fire Pumps and Emergency Generators**

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

## **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

## **User Defined Equipment**

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

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AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

#### **AV Annexation 2017**

#### San Bernardino-Mojave Desert County, Summer

## 1.0 Project Characteristics

## 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	247.00	Dwelling Unit	263.00	444,600.00	706
Regional Shopping Center	3,789.10	1000sqft	424.00	3,789,101.00	0
General Office Building	1,867.95	1000sqft	209.00	1,867,950.00	0
Industrial Park	3,646.22	1000sqft	408.00	3,646,216.00	0

## 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025

Utility Company Southern California Edison

 CO2 Intensity
 702.44
 CH4 Intensity
 0.029
 N2O Intensity
 0.006

 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proposed 2017 Annexation area (Golden Triangle Area).

Construction Phase - GP buildout is 2025.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project Traffic Report.

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AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	BuildingSpaceSquareFeet	3,646,220.00	3,646,216.00
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LandUseSquareFeet	3,646,220.00	3,646,216.00
tblLandUse	LotAcreage	80.19	263.00
tblLandUse	LotAcreage	86.99	424.00
tblLandUse	LotAcreage	42.88	209.00
tblLandUse	LotAcreage	83.71	408.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00
tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

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tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

## **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day					lb/day					
2017	281.9607	436.3148	372.9104	1.0255	110.0695	13.2892	123.3587	29.8224	12.3642	42.1866	0.0000	104,908.4 709	104,908.4 709	10.4944	0.0000	105,170.8 302
2018	276.1603	397.6851	335.2262	1.0134	110.0693	11.3946	121.4639	29.8224	10.5979	40.4203	0.0000	103,485.0 369	103,485.0 369	10.1170	0.0000	103,737.9 620
2019	272.0976	369.0182	307.3348	0.9956	110.0691	10.2279	120.2970	29.8223	9.5078	39.3301	0.0000	101,456.3 785	101,456.3 785	9.8516	0.0000	101,702.6 679
2020	268.4813	338.7428	284.5589	0.9809	110.0689	9.0378	119.1067	29.8222	8.3914	38.2136	0.0000	99,642.67 88	99,642.67 88	9.5507	0.0000	99,881.44 58
2021	265.5200	312.3362	267.2716	0.9672	110.0687	7.8084	117.8771	29.8221	7.2344	37.0566	0.0000	98,288.13 89	98,288.13 89	9.3377	0.0000	98,521.58 17
Maximum	281.9607	436.3148	372.9104	1.0255	110.0695	13.2892	123.3587	29.8224	12.3642	42.1866	0.0000	104,908.4 709	104,908.4 709	10.4944	0.0000	105,170.8 302

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

## **Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb/	day		
2017	281.9607	436.3148	372.9104	1.0255	110.0695	13.2892	123.3587	29.8224	12.3642	42.1866	0.0000	104,908.4 709	104,908.4 709	10.4944	0.0000	105,170.8 302
2018	276.1603	397.6851	335.2262	1.0134	110.0693	11.3946	121.4639	29.8224	10.5979	40.4203	0.0000	103,485.0 368	103,485.0 368	10.1170	0.0000	103,737.9 620
2019	272.0976	369.0182	307.3348	0.9956	110.0691	10.2279	120.2970	29.8223	9.5078	39.3301	0.0000	101,456.3 785	101,456.3 785	9.8516	0.0000	101,702.6 678
2020	268.4813	338.7428	284.5589	0.9809	110.0689	9.0378	119.1067	29.8222	8.3914	38.2136	0.0000	99,642.67 87	99,642.67 87	9.5507	0.0000	99,881.44 58
2021	265.5200	312.3362	267.2716	0.9672	110.0687	7.8084	117.8771	29.8221	7.2344	37.0566	0.0000	98,288.13 89	98,288.13 89	9.3377	0.0000	98,521.58 16
Maximum	281.9607	436.3148	372.9104	1.0255	110.0695	13.2892	123.3587	29.8224	12.3642	42.1866	0.0000	104,908.4 709	104,908.4 709	10.4944	0.0000	105,170.8 302
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day lb/day															
Area	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Energy	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Mobile	416.4572	2,461.382 0	5,408.307 5	24.2672	1,990.298 0	13.8672	2,004.165 3	532.4526	12.9152	545.3677		2,480,558. 1715	2,480,558. 1715	101.4041		2,483,093. 2741
Total	1,067.737 1	2,478.761 2	5,903.456 4	25.1731	1,990.298 0	80.1592	2,070.457 2	532.4526	79.2071	611.6597	6,859.617 5	2,495,355. 8687	2,502,215. 4862	108.0026	0.7574	2,505,141. 2555

## **Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day											lb/d	day		
Area	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Energy	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Mobile	416.4572	2,461.382 0	5,408.307 5	24.2672	1,990.298 0	13.8672	2,004.165 3	532.4526	12.9152	545.3677		2,480,558. 1715	2,480,558. 1715	101.4041		2,483,093. 2741
Total	1,067.737 1	2,478.761 2	5,903.456 4	25.1731	1,990.298 0	80.1592	2,070.457 2	532.4526	79.2071	611.6597	6,859.617 5	2,495,355. 8687	2,502,215. 4862	108.0026	0.7574	2,505,141. 2555

#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	10/30/2017	8/27/2021	5	1000	
2	Building Construction	Building Construction	10/30/2017	8/27/2021	5	1000	
3	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
4	Grading	Grading	10/30/2017	8/27/2021	5	1000	
5	Paving	Paving	10/30/2017	8/27/2021	5	1000	
6	Site Preparation	Site Preparation	10/30/2017	8/27/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 900,315; Residential Outdoor: 300,105; Non-Residential Indoor: 13,954,901; Non-Residential Outdoor: 4,651,634; Striped

Parking Area: 0 (Architectural Coating - sqft)

**OffRoad Equipment** 

AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	686.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,431.00	1,551.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

## **3.1 Mitigation Measures Construction**

## 3.2 Architectural Coating - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day											lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	,       	0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	229.8454	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o			lb/c	day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	<del></del> -       	0.0000
Worker	4.0744	2.6948	33.5634	0.0635	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		6,304.646 1	6,304.646 1	0.2624		6,311.2054
Total	4.0744	2.6948	33.5634	0.0635	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		6,304.646 1	6,304.646 1	0.2624		6,311.205 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297	i i i	282.1909
Total	229.8454	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o			lb/c	day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	<del></del> -       	0.0000
Worker	4.0744	2.6948	33.5634	0.0635	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		6,304.646 1	6,304.646 1	0.2624		6,311.2054
Total	4.0744	2.6948	33.5634	0.0635	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		6,304.646 1	6,304.646 1	0.2624		6,311.205 4

## 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267	     	282.1171
Total	229.8117	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lb/day										
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.6416	2.3462	29.3933	0.0617	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		6,129.869 3	6,129.869 3	0.2302		6,135.624 0
Total	3.6416	2.3462	29.3933	0.0617	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		6,129.869 3	6,129.869 3	0.2302		6,135.624 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000		!	0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267	,	282.1171
Total	229.8117	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.6416	2.3462	29.3933	0.0617	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		6,129.869 3	6,129.869 3	0.2302		6,135.624 0
Total	3.6416	2.3462	29.3933	0.0617	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		6,129.869 3	6,129.869 3	0.2302		6,135.624 0

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000		1 1 1	0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	229.7795	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.3094	2.0621	26.0595	0.0595	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,921.908 9	5,921.908 9	0.2023		5,926.966 4
Total	3.3094	2.0621	26.0595	0.0595	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,921.908 9	5,921.908 9	0.2023		5,926.966 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288	       	0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	229.7795	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.3094	2.0621	26.0595	0.0595	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,921.908 9	5,921.908 9	0.2023	       	5,926.966 4
Total	3.3094	2.0621	26.0595	0.0595	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,921.908 9	5,921.908 9	0.2023		5,926.966 4

## 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109	       	0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	229.7553	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.0446	1.8308	23.5008	0.0577	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,737.580 0	5,737.580 0	0.1784	       	5,742.039 8
Total	3.0446	1.8308	23.5008	0.0577	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,737.580 0	5,737.580 0	0.1784		5,742.039 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000		!	0.0000			0.0000
	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	229.7553	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.0446	1.8308	23.5008	0.0577	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,737.580 0	5,737.580 0	0.1784	       	5,742.039 8
Total	3.0446	1.8308	23.5008	0.0577	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,737.580 0	5,737.580 0	0.1784		5,742.039 8

## 3.2 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193	 	281.9309
Total	229.7320	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.8315	1.6405	21.6156	0.0558	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		5,554.850 4	5,554.850 4	0.1609		5,558.873 6
Total	2.8315	1.6405	21.6156	0.0558	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		5,554.850 4	5,554.850 4	0.1609		5,558.873 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000	i i	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941	 	0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	229.7320	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.8315	1.6405	21.6156	0.0558	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		5,554.850 4	5,554.850 4	0.1609		5,558.873 6
Total	2.8315	1.6405	21.6156	0.0558	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		5,554.850 4	5,554.850 4	0.1609		5,558.873 6

## 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3873	207.4552	47.8215	0.4466	10.5080	1.7681	12.2761	3.0254	1.6915	4.7169		47,019.25 98	47,019.25 98	3.2864	<del></del> -       	47,101.41 97
Worker	20.3778	13.4779	167.8659	0.3175	28.1849	0.2099	28.3947	7.4759	0.1936	7.6695		31,532.421 1	31,532.421 1	1.3122	       	31,565.22 70
Total	27.7650	220.9330	215.6873	0.7641	38.6928	1.9780	40.6708	10.5014	1.8851	12.3864		78,551.68 08	78,551.68 08	4.5986		78,666.64 67

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3873	207.4552	47.8215	0.4466	10.5080	1.7681	12.2761	3.0254	1.6915	4.7169		47,019.25 98	47,019.25 98	3.2864	       	47,101.41 97
Worker	20.3778	13.4779	167.8659	0.3175	28.1849	0.2099	28.3947	7.4759	0.1936	7.6695		31,532.421 1	31,532.421 1	1.3122	       	31,565.22 70
Total	27.7650	220.9330	215.6873	0.7641	38.6928	1.9780	40.6708	10.5014	1.8851	12.3864		78,551.68 08	78,551.68 08	4.5986		78,666.64 67

## 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.4378	194.4123	41.8091	0.4456	10.5078	1.3924	11.9002	3.0254	1.3320	4.3574		46,944.96 85	46,944.96 85	3.1262		47,023.12 24
Worker	18.2133	11.7344	147.0094	0.3084	28.1849	0.2021	28.3869	7.4759	0.1862	7.6622		30,658.28 24	30,658.28 24	1.1513		30,687.06 40
Total	24.6510	206.1467	188.8185	0.7541	38.6926	1.5945	40.2871	10.5013	1.5183	12.0196		77,603.25 09	77,603.25 09	4.2774		77,710.18 64

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

# 3.3 Building Construction - 2018 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.4378	194.4123	41.8091	0.4456	10.5078	1.3924	11.9002	3.0254	1.3320	4.3574		46,944.96 85	46,944.96 85	3.1262	       	47,023.12 24
Worker	18.2133	11.7344	147.0094	0.3084	28.1849	0.2021	28.3869	7.4759	0.1862	7.6622		30,658.28 24	30,658.28 24	1.1513	       	30,687.06 40
Total	24.6510	206.1467	188.8185	0.7541	38.6926	1.5945	40.2871	10.5013	1.5183	12.0196		77,603.25 09	77,603.25 09	4.2774		77,710.18 64

## 3.3 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7258	182.4041	37.1867	0.4409	10.5076	1.1781	11.6857	3.0253	1.1270	4.1523		46,475.87 86	46,475.87 86	3.0521	       	46,552.18 12
Worker	16.5519	10.3134	130.3357	0.2978	28.1849	0.1956	28.3805	7.4759	0.1802	7.6562		29,618.17 71	29,618.17 71	1.0118	       	29,643.47 19
Total	22.2777	192.7176	167.5223	0.7387	38.6924	1.3738	40.0662	10.5012	1.3072	11.8085		76,094.05 58	76,094.05 58	4.0639		76,195.65 31

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7258	182.4041	37.1867	0.4409	10.5076	1.1781	11.6857	3.0253	1.1270	4.1523		46,475.87 86	46,475.87 86	3.0521	     	46,552.18 12
Worker	16.5519	10.3134	130.3357	0.2978	28.1849	0.1956	28.3805	7.4759	0.1802	7.6562		29,618.17 71	29,618.17 71	1.0118	     	29,643.47 19
Total	22.2777	192.7176	167.5223	0.7387	38.6924	1.3738	40.0662	10.5012	1.3072	11.8085		76,094.05 58	76,094.05 58	4.0639		76,195.65 31

## 3.3 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8371	166.8226	32.6331	0.4377	10.5074	0.7944	11.3018	3.0252	0.7600	3.7852		46,159.17 89	46,159.17 89	2.9115	       	46,231.96 67
Worker	15.2275	9.1566	117.5383	0.2884	28.1849	0.1907	28.3755	7.4759	0.1756	7.6515		28,696.26 39	28,696.26 39	0.8922	       	28,718.56 93
Total	20.0646	175.9792	150.1714	0.7261	38.6922	0.9851	39.6773	10.5012	0.9355	11.4367		74,855.44 27	74,855.44 27	3.8037		74,950.53 60

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8371	166.8226	32.6331	0.4377	10.5074	0.7944	11.3018	3.0252	0.7600	3.7852		46,159.17 89	46,159.17 89	2.9115	       	46,231.96 67
Worker	15.2275	9.1566	117.5383	0.2884	28.1849	0.1907	28.3755	7.4759	0.1756	7.6515		28,696.26 39	28,696.26 39	0.8922	       	28,718.56 93
Total	20.0646	175.9792	150.1714	0.7261	38.6922	0.9851	39.6773	10.5012	0.9355	11.4367		74,855.44 27	74,855.44 27	3.8037		74,950.53 60

## 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.1131	152.1128	28.7600	0.4353	10.5072	0.2698	10.7770	3.0251	0.2580	3.2832		45,917.64 45	45,917.64 45	2.8170		45,988.07 06
Worker	14.1618	8.2047	108.1096	0.2791	28.1849	0.1861	28.3710	7.4759	0.1714	7.6473		27,782.34 94	27,782.34 94	0.8049		27,802.47 15
Total	18.2748	160.3175	136.8697	0.7143	38.6921	0.4559	39.1480	10.5011	0.4294	10.9305		73,699.99 39	73,699.99 39	3.6219		73,790.54 21

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.1131	152.1128	28.7600	0.4353	10.5072	0.2698	10.7770	3.0251	0.2580	3.2832		45,917.64 45	45,917.64 45	2.8170		45,988.07 06
Worker	14.1618	8.2047	108.1096	0.2791	28.1849	0.1861	28.3710	7.4759	0.1714	7.6473		27,782.34 94	27,782.34 94	0.8049		27,802.47 15
Total	18.2748	160.3175	136.8697	0.7143	38.6921	0.4559	39.1480	10.5011	0.4294	10.9305		73,699.99 39	73,699.99 39	3.6219		73,790.54 21

## 3.4 Demolition - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935	1 1 1	2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283	1.0730		3,951.107 0

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283	1.0730		3,951.107 0

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

#### 3.4 Demolition - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

#### 3.4 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

#### 3.4 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	 	1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

# 3.5 Grading - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.886 3	6,344.886 3	1.9441		6,393.487 9
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744		6,344.886 3	6,344.886 3	1.9441		6,393.487 9

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003	   	184.0002
Total	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.886 3	6,344.886 3	1.9441		6,393.487 8
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744	0.0000	6,344.886 3	6,344.886 3	1.9441		6,393.487 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002
Total	0.1188	0.0786	0.9785	1.8500e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		183.8089	183.8089	7.6500e- 003		184.0002

## 3.5 Grading - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

# 3.5 Grading - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		! !	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620	   	2.3827	2.3827		2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426	; ! ! !	6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003	       	172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

## 3.5 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

# 3.5 Grading - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620	 	1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428	; ! ! !	6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.5 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

## 3.6 Paving - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000		 	0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

# 3.6 Paving - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000	       				0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		       	0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

# 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	 	       	0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		i i i	0.0000		       	0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

# 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	 	       	0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139	  -  -	2,225.057 3
Paving	0.0000		]   			0.0000	0.0000		0.0000	0.0000		i i	0.0000		i i	0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

## 3.7 Site Preparation - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934	,	3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001
Total	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380	 	2.8786	2.8786		2.6483	2.6483	0.0000	3,894.950 0	3,894.950 0	1.1934	;	3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	! !	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001
Total	0.1069	0.0707	0.8807	1.6700e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		165.4280	165.4280	6.8800e- 003		165.6001

## 3.7 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		! !	0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	       	2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928	 	3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

## 3.7 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917	   	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		! !	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	       	2.3904	2.3904		2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	; ! ! !	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181

## 3.7 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974	1 1 1	2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918	i i	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

## 3.7 Site Preparation - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445	 	1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	 	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	416.4572	2,461.382 0	5,408.307 5	24.2672	1,990.298 0	13.8672	2,004.165 3	532.4526	12.9152	545.3677		2,480,558. 1715	2,480,558. 1715	101.4041		2,483,093. 2741
Unmitigated	416.4572	2,461.382 0	5,408.307 5	24.2672	1,990.298 0	13.8672	2,004.165 3	532.4526	12.9152	545.3677	,	2,480,558. 1715	2,480,558. 1715	101.4041		2,483,093. 2741

## **4.2 Trip Summary Information**

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.83	4,595.16	1961.35	33,294,606	33,294,606
Industrial Park	18,085.25	9,079.09	2661.74	444,948,278	444,948,278
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	2,405.78	2,447.77	2129.14	6,737,499	6,737,499
Total	181,723.39	205,463.34	102,389.11	735,495,291	735,495,291

## 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

## 4.4 Fleet Mix

## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

## 5.0 Energy Detail

Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
NaturalGas Mitigated	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Unmitigated	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	ay		
General Office Building	17860.7	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	)   	0.1331	0.1331		2,101.255 6	2,101.255 6	0.0403	0.0385	2,113.7423
Industrial Park	34863.8	0.3760	3.4180	2.8711	0.0205		0.2598	0.2598	,       	0.2598	0.2598		4,101.625 7	4,101.625 7	0.0786	0.0752	4,125.999 7
Regional Shopping Center	23149.8	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	25123.9	0.2709	2.3153	0.9853	0.0148		0.1872	0.1872	,	0.1872	0.1872		2,955.752 1	2,955.752 1	0.0567	0.0542	2,973.316 6
Total		1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.14 52	11,882.14 52	0.2277	0.2178	11,952.75 48

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

**5.2 Energy by Land Use - NaturalGas Mitigated** 

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	lay		
General Office Building	17.8607	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	 	0.1331	0.1331		2,101.255 6	2,101.255 6	0.0403	0.0385	2,113.7423
Industrial Park	34.8638	0.3760	3.4180	2.8711	0.0205		0.2598	0.2598	i i	0.2598	0.2598		4,101.625 7	4,101.625 7	0.0786	0.0752	4,125.999 7
Regional Shopping Center	23.1498	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	1	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	25.1239	0.2709	2.3153	0.9853	0.0148		0.1872	0.1872	1	0.1872	0.1872		2,955.752 1	2,955.752 1	0.0567	0.0542	2,973.316 6
Total		1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.14 52	11,882.14 52	0.2277	0.2178	11,952.75 48

## 6.0 Area Detail

## **6.1 Mitigation Measures Area**

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Unmitigated	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66

## 6.2 Area by SubCategory

## **Unmitigated**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	62.8803					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	208.6044		1 1 1			0.0000	0.0000	1       	0.0000	0.0000			0.0000			0.0000
Hearth	378.0076	7.3821	466.6093	0.8454		65.4231	65.4231	1       	65.4231	65.4231	6,859.617 5	2,876.823 5	9,736.441 0	6.3303	0.5396	10,055.48 73
Landscaping	0.6985	0.2431	21.3059	1.1500e- 003		0.1163	0.1163	1       	0.1163	0.1163		38.7285	38.7285	0.0404		39.7393
Total	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## 6.2 Area by SubCategory

## **Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory		lb/day										lb/day					
Architectural Coating	62.8803					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	208.6044					0.0000	0.0000	i i	0.0000	0.0000			0.0000		       	0.0000	
Hearth	378.0076	7.3821	466.6093	0.8454		65.4231	65.4231	i i	65.4231	65.4231	6,859.617 5	2,876.823 5	9,736.441 0	6.3303	0.5396	10,055.48 73	
Landscaping	0.6985	0.2431	21.3059	1.1500e- 003	 	0.1163	0.1163	1 1 1 1	0.1163	0.1163		38.7285	38.7285	0.0404		39.7393	
Total	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66	

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

## **8.1 Mitigation Measures Waste**

## 9.0 Operational Offroad

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

## AV Annexation 2017 - San Bernardino-Mojave Desert County, Summer

## **Fire Pumps and Emergency Generators**

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

## **Boilers**

			11 .1 .01	5 " 5 "	
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

## **User Defined Equipment**

Equipment Type	Number
----------------	--------

## 11.0 Vegetation

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#### **AV Annexation 2017**

#### San Bernardino-Mojave Desert County, Annual

## 1.0 Project Characteristics

## 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	247.00	Dwelling Unit	263.00	444,600.00	706
Regional Shopping Center	3,789.10	1000sqft	424.00	3,789,101.00	0
General Office Building	1,867.95	1000sqft	209.00	1,867,950.00	0
Industrial Park	3,646.22	1000sqft	408.00	3,646,216.00	0

## 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025

Utility Company Southern California Edison

 CO2 Intensity
 702.44
 CH4 Intensity
 0.029
 N2O Intensity
 0.006

 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proposed 2017 Annexation area (Golden Triangle Area).

Construction Phase - GP buildout is 2025.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project Traffic Report.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	BuildingSpaceSquareFeet	3,646,220.00	3,646,216.00
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LandUseSquareFeet	3,646,220.00	3,646,216.00
tblLandUse	LotAcreage	80.19	263.00
tblLandUse	LotAcreage	86.99	424.00
tblLandUse	LotAcreage	42.88	209.00
tblLandUse	LotAcreage	83.71	408.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00
tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74

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tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

## 2.0 Emissions Summary

## 2.1 Overall Construction

## **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	6.2859	9.9457	7.9133	0.0222	33.5829	0.2992	33.8821	9.1078	0.2784	9.3862	0.0000	2,062.065 5	2,062.065 5	0.2144	0.0000	2,067.424 3
2018	35.7311	52.5305	41.2863	0.1273	38.3422	1.4879	39.8301	10.3977	1.3839	11.7816	0.0000	11,799.195 3	11,799.195 3	1.2000	0.0000	11,829.194 7
2019	35.2278	48.6967	37.9131	0.1251	38.3422	1.3356	39.6777	10.3977	1.2415	11.6392	0.0000	11,571.266 5	11,571.266 5	1.1700	0.0000	11,600.515 9
2020	34.9125	44.8069	35.2676	0.1238	38.3642	1.1845	39.5487	10.4036	1.0998	11.5034	0.0000	11,410.999 1	11,410.999 1	1.1396	0.0000	11,439.489 1
2021	22.5461	26.9224	21.6276	0.0797	36.3591	0.6679	37.0270	9.8602	0.6188	10.4790	0.0000	7,350.037 6	7,350.037 6	0.7278	0.0000	7,368.233 3
Maximum	35.7311	52.5305	41.2863	0.1273	38.3642	1.4879	39.8301	10.4036	1.3839	11.7816	0.0000	11,799.19 53	11,799.19 53	1.2000	0.0000	11,829.19 47

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## 2.1 Overall Construction Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Year		tons/yr											MT/yr					
2017	6.2859	9.9457	7.9133	0.0222	33.5829	0.2992	33.8821	9.1078	0.2784	9.3862	0.0000	2,062.065 1	2,062.065 1	0.2144	0.0000	2,067.423 8		
2018	35.7311	52.5305	41.2863	0.1273	38.3422	1.4879	39.8301	10.3977	1.3839	11.7816	0.0000	11,799.192 6	11,799.192 6	1.2000	0.0000	11,829.192 0		
2019	35.2278	48.6966	37.9131	0.1251	38.3422	1.3356	39.6777	10.3977	1.2415	11.6392	0.0000	11,571.263 9	11,571.263 9	1.1700	0.0000	11,600.513 2		
2020	34.9125	44.8069	35.2676	0.1238	38.3642	1.1845	39.5487	10.4036	1.0998	11.5034	0.0000	11,410.996 5	11,410.996 5	1.1396	0.0000	11,439.486 4		
2021	22.5461	26.9224	21.6276	0.0797	36.3591	0.6679	37.0270	9.8602	0.6188	10.4790	0.0000	7,350.035 9	7,350.035 9	0.7278	0.0000	7,368.231 6		
Maximum	35.7311	52.5305	41.2863	0.1273	38.3642	1.4879	39.8301	10.4036	1.3839	11.7816	0.0000	11,799.19 26	11,799.19 26	1.2000	0.0000	11,829.19 20		
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e		
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-30-2017	1-29-2018	23.1473	23.1473
2	1-30-2018	4-29-2018	21.6573	21.6573
3	4-30-2018	7-29-2018	21.9000	21.9000
4	7-30-2018	10-29-2018	22.1397	22.1397
5	10-30-2018	1-29-2019	21.7956	21.7956
6	1-30-2019	4-29-2019	20.5990	20.5990

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7	4-30-2019	7-29-2019	20.8363	20.8363
8	7-30-2019	10-29-2019	21.0613	21.0613
9	10-30-2019	1-29-2020	20.6979	20.6979
10	1-30-2020	4-29-2020	19.7182	19.7182
11	4-30-2020	7-29-2020	19.7348	19.7348
12	7-30-2020	10-29-2020	19.9439	19.9439
13	10-30-2020	1-29-2021	19.6196	19.6196
14	1-30-2021	4-29-2021	18.5507	18.5507
15	4-30-2021	7-29-2021	18.7803	18.7803
16	7-30-2021	9-30-2021	5.9849	5.9849
		Highest	23.1473	23.1473

## 2.2 Overall Operational

## **Unmitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e					
Category	tons/yr												MT	<sup>-</sup> /yr							
Area	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542					
Energy	0.1988	1.7801	1.3202	0.0108		0.1373	0.1373		0.1373	0.1373	0.0000	35,558.87 96	35,558.87 96	1.4245	0.3230	35,690.74 49					
Mobile	50.1893	354.5048	689.5107	3.2666	279.9973	1.9835	281.9808	75.0236	1.8474	76.8711	0.0000	303,292.0 378	303,292.0 378	12.9508	0.0000	303,615.8 066					
Waste						0.0000	0.0000		0.0000	0.0000	2,136.788 4	0.0000	2,136.788 4	126.2806	0.0000	5,293.802 9					
Water						0.0000	0.0000		0.0000	0.0000	466.9810	7,471.928 7	7,938.909 6	48.2719	1.1963	9,502.217 4					
Total	115.4952	356.6095	711.8793	3.3122	279.9973	4.8137	284.8110	75.0236	4.6776	79.7012	2,858.910 0	346,433.0 103	349,291.9 203	189.1665	1.5394	354,479.8 260					

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## AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

## 2.2 Overall Operational

## **Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e					
Category					ton	s/yr							МТ	<sup>7</sup> /yr		0.0004					
Area	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542					
Energy	0.1988	1.7801	1.3202	0.0108		0.1373	0.1373		0.1373	0.1373	0.0000	35,558.87 96	35,558.87 96	1.4245	0.3230	35,690.74 49					
Mobile	50.1893	354.5048	689.5107	3.2666	279.9973	1.9835	281.9808	75.0236	1.8474	76.8711	0.0000	303,292.0 378	303,292.0 378	12.9508	0.0000	303,615.8 066					
Waste			 			0.0000	0.0000		0.0000	0.0000	2,136.788 4	0.0000	2,136.788 4	126.2806	0.0000	5,293.802 9					
Water			       			0.0000	0.0000		0.0000	0.0000	466.9810	7,471.928 7	7,938.909 6	48.2719	1.1963	9,502.217 4					
Total	115.4952	356.6095	711.8793	3.3122	279.9973	4.8137	284.8110	75.0236	4.6776	79.7012	2,858.910 0	346,433.0 103	349,291.9 203	189.1665	1.5394	354,479.8 260					

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

#### **Construction Phase**

#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	10/30/2017	8/27/2021	5	1000	
2	Building Construction	Building Construction	10/30/2017	8/27/2021	5	1000	
3	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
4	Grading	Grading	10/30/2017	8/27/2021	5	1000	
5	Paving	Paving	10/30/2017	8/27/2021	5	1000	
6	Site Preparation	Site Preparation	10/30/2017	8/27/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 900,315; Residential Outdoor: 300,105; Non-Residential Indoor: 13,954,901; Non-Residential Outdoor: 4,651,634; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	686.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,431.00	1,551.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

## 3.2 Architectural Coating - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	5.1640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	7.4800e- 003	0.0492	0.0420	7.0000e- 005		3.9000e- 003	3.9000e- 003		3.9000e- 003	3.9000e- 003	0.0000	5.7448	5.7448	6.1000e- 004	0.0000	5.7600
Total	5.1715	0.0492	0.0420	7.0000e- 005		3.9000e- 003	3.9000e- 003		3.9000e- 003	3.9000e- 003	0.0000	5.7448	5.7448	6.1000e- 004	0.0000	5.7600

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# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0817	0.0673	0.6653	1.3100e- 003	0.1244	9.4000e- 004	0.1253	0.0330	8.7000e- 004	0.0339	0.0000	118.0542	118.0542	4.9000e- 003	0.0000	118.1767
Total	0.0817	0.0673	0.6653	1.3100e- 003	0.1244	9.4000e- 004	0.1253	0.0330	8.7000e- 004	0.0339	0.0000	118.0542	118.0542	4.9000e- 003	0.0000	118.1767

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	5.1640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4800e- 003	0.0492	0.0420	7.0000e- 005	   	3.9000e- 003	3.9000e- 003	1	3.9000e- 003	3.9000e- 003	0.0000	5.7448	5.7448	6.1000e- 004	0.0000	5.7600
Total	5.1715	0.0492	0.0420	7.0000e- 005		3.9000e- 003	3.9000e- 003		3.9000e- 003	3.9000e- 003	0.0000	5.7448	5.7448	6.1000e- 004	0.0000	5.7600

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3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0817	0.0673	0.6653	1.3100e- 003	0.1244	9.4000e- 004	0.1253	0.0330	8.7000e- 004	0.0339	0.0000	118.0542	118.0542	4.9000e- 003	0.0000	118.1767
Total	0.0817	0.0673	0.6653	1.3100e- 003	0.1244	9.4000e- 004	0.1253	0.0330	8.7000e- 004	0.0339	0.0000	118.0542	118.0542	4.9000e- 003	0.0000	118.1767

## 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	29.9515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e- 004		0.0197	0.0197	       	0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3992
Total	29.9904	0.2618	0.2420	3.9000e- 004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3992

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# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4223	0.3393	3.3671	7.3800e- 003	0.7214	5.2700e- 003	0.7267	0.1916	4.8600e- 003	0.1965	0.0000	665.6125	665.6125	0.0248	0.0000	666.2336
Total	0.4223	0.3393	3.3671	7.3800e- 003	0.7214	5.2700e- 003	0.7267	0.1916	4.8600e- 003	0.1965	0.0000	665.6125	665.6125	0.0248	0.0000	666.2336

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	29.9515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e- 004		0.0197	0.0197	       	0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3991
Total	29.9904	0.2618	0.2420	3.9000e- 004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e- 003	0.0000	33.3991

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# 3.2 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4223	0.3393	3.3671	7.3800e- 003	0.7214	5.2700e- 003	0.7267	0.1916	4.8600e- 003	0.1965	0.0000	665.6125	665.6125	0.0248	0.0000	666.2336
Total	0.4223	0.3393	3.3671	7.3800e- 003	0.7214	5.2700e- 003	0.7267	0.1916	4.8600e- 003	0.1965	0.0000	665.6125	665.6125	0.0248	0.0000	666.2336

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	29.9515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903
Total	29.9862	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903

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## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3835	0.2981	2.9786	7.1200e- 003	0.7214	5.1000e- 003	0.7265	0.1916	4.7000e- 003	0.1963	0.0000	643.0010	643.0010	0.0218	0.0000	643.5458
Total	0.3835	0.2981	2.9786	7.1200e- 003	0.7214	5.1000e- 003	0.7265	0.1916	4.7000e- 003	0.1963	0.0000	643.0010	643.0010	0.0218	0.0000	643.5458

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	29.9515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004	       	0.0168	0.0168	       	0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903
Total	29.9862	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903

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3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3835	0.2981	2.9786	7.1200e- 003	0.7214	5.1000e- 003	0.7265	0.1916	4.7000e- 003	0.1963	0.0000	643.0010	643.0010	0.0218	0.0000	643.5458
Total	0.3835	0.2981	2.9786	7.1200e- 003	0.7214	5.1000e- 003	0.7265	0.1916	4.7000e- 003	0.1963	0.0000	643.0010	643.0010	0.0218	0.0000	643.5458

## 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	30.0662					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004		0.0145	0.0145	1 1 1 1	0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124
Total	30.0979	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124

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## 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3543	0.2655	2.6908	6.9200e- 003	0.7242	4.9900e- 003	0.7292	0.1924	4.6000e- 003	0.1970	0.0000	625.3554	625.3554	0.0193	0.0000	625.8370
Total	0.3543	0.2655	2.6908	6.9200e- 003	0.7242	4.9900e- 003	0.7292	0.1924	4.6000e- 003	0.1970	0.0000	625.3554	625.3554	0.0193	0.0000	625.8370

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	30.0662					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004		0.0145	0.0145	 	0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123
Total	30.0979	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123

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3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3543	0.2655	2.6908	6.9200e- 003	0.7242	4.9900e- 003	0.7292	0.1924	4.6000e- 003	0.1970	0.0000	625.3554	625.3554	0.0193	0.0000	625.8370
Total	0.3543	0.2655	2.6908	6.9200e- 003	0.7242	4.9900e- 003	0.7292	0.1924	4.6000e- 003	0.1970	0.0000	625.3554	625.3554	0.0193	0.0000	625.8370

## 3.2 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	19.6234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1306	0.1554	2.5000e- 004		8.0500e- 003	8.0500e- 003	 	8.0500e- 003	8.0500e- 003	0.0000	21.8303	21.8303	1.5000e- 003	0.0000	21.8678
Total	19.6421	0.1306	0.1554	2.5000e- 004		8.0500e- 003	8.0500e- 003		8.0500e- 003	8.0500e- 003	0.0000	21.8303	21.8303	1.5000e- 003	0.0000	21.8678

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3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2152	0.1552	1.6117	4.3700e- 003	0.4726	3.1800e- 003	0.4758	0.1256	2.9300e- 003	0.1285	0.0000	395.1631	395.1631	0.0113	0.0000	395.4466
Total	0.2152	0.1552	1.6117	4.3700e- 003	0.4726	3.1800e- 003	0.4758	0.1256	2.9300e- 003	0.1285	0.0000	395.1631	395.1631	0.0113	0.0000	395.4466

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	19.6234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.1306	0.1554	2.5000e- 004	   	8.0500e- 003	8.0500e- 003		8.0500e- 003	8.0500e- 003	0.0000	21.8303	21.8303	1.5000e- 003	0.0000	21.8678
Total	19.6421	0.1306	0.1554	2.5000e- 004		8.0500e- 003	8.0500e- 003		8.0500e- 003	8.0500e- 003	0.0000	21.8303	21.8303	1.5000e- 003	0.0000	21.8678

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3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2152	0.1552	1.6117	4.3700e- 003	0.4726	3.1800e- 003	0.4758	0.1256	2.9300e- 003	0.1285	0.0000	395.1631	395.1631	0.0113	0.0000	395.4466
Total	0.2152	0.1552	1.6117	4.3700e- 003	0.4726	3.1800e- 003	0.4758	0.1256	2.9300e- 003	0.1285	0.0000	395.1631	395.1631	0.0113	0.0000	395.4466

## 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0701	0.5975	0.4091	6.1000e- 004		0.0402	0.0402		0.0378	0.0378	0.0000	54.1109	54.1109	0.0133	0.0000	54.4442
Total	0.0701	0.5975	0.4091	6.1000e- 004		0.0402	0.0402		0.0378	0.0378	0.0000	54.1109	54.1109	0.0133	0.0000	54.4442

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## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1688	4.7560	1.1473	9.9000e- 003	0.2327	0.0400	0.2727	0.0672	0.0383	0.1054	0.0000	945.3251	945.3251	0.0700	0.0000	947.0752
Worker	0.4086	0.3364	3.3273	6.5500e- 003	0.6221	4.7200e- 003	0.6268	0.1652	4.3600e- 003	0.1696	0.0000	590.4429	590.4429	0.0245	0.0000	591.0556
Total	0.5774	5.0924	4.4746	0.0165	0.8548	0.0447	0.8995	0.2324	0.0426	0.2750	0.0000	1,535.768 0	1,535.768 0	0.0945	0.0000	1,538.130 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0701	0.5975	0.4091	6.1000e- 004		0.0402	0.0402		0.0378	0.0378	0.0000	54.1108	54.1108	0.0133	0.0000	54.4441
Total	0.0701	0.5975	0.4091	6.1000e- 004		0.0402	0.0402		0.0378	0.0378	0.0000	54.1108	54.1108	0.0133	0.0000	54.4441

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3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1688	4.7560	1.1473	9.9000e- 003	0.2327	0.0400	0.2727	0.0672	0.0383	0.1054	0.0000	945.3251	945.3251	0.0700	0.0000	947.0752
Worker	0.4086	0.3364	3.3273	6.5500e- 003	0.6221	4.7200e- 003	0.6268	0.1652	4.3600e- 003	0.1696	0.0000	590.4429	590.4429	0.0245	0.0000	591.0556
Total	0.5774	5.0924	4.4746	0.0165	0.8548	0.0447	0.8995	0.2324	0.0426	0.2750	0.0000	1,535.768 0	1,535.768 0	0.0945	0.0000	1,538.130 7

## 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3497	3.0524	2.2943	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867
Total	0.3497	3.0524	2.2943	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2862	310.2862	0.0760	0.0000	312.1867

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# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.8549	25.8012	5.8549	0.0573	1.3499	0.1826	1.5325	0.3896	0.1747	0.5643	0.0000	5,472.124 4	5,472.124 4	0.3870	0.0000	5,481.800 1
Worker	2.1123	1.6971	16.8404	0.0369	3.6081	0.0264	3.6344	0.9584	0.0243	0.9827	0.0000	3,329.032 5	3,329.032 5	0.1243	0.0000	3,332.139 0
Total	2.9672	27.4983	22.6953	0.0942	4.9579	0.2090	5.1669	1.3480	0.1990	1.5470	0.0000	8,801.156 9	8,801.156 9	0.5113	0.0000	8,813.939 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3497	3.0524	2.2942	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864
Total	0.3497	3.0524	2.2942	3.5100e- 003		0.1957	0.1957		0.1840	0.1840	0.0000	310.2859	310.2859	0.0760	0.0000	312.1864

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# 3.3 Building Construction - 2018 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.8549	25.8012	5.8549	0.0573	1.3499	0.1826	1.5325	0.3896	0.1747	0.5643	0.0000	5,472.124 4	5,472.124 4	0.3870	0.0000	5,481.800 1
Worker	2.1123	1.6971	16.8404	0.0369	3.6081	0.0264	3.6344	0.9584	0.0243	0.9827	0.0000	3,329.032 5	3,329.032 5	0.1243	0.0000	3,332.139 0
Total	2.9672	27.4983	22.6953	0.0942	4.9579	0.2090	5.1669	1.3480	0.1990	1.5470	0.0000	8,801.156 9	8,801.156 9	0.5113	0.0000	8,813.939 1

## 3.3 Building Construction - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

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3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7615	24.1667	5.2342	0.0567	1.3498	0.1546	1.5044	0.3895	0.1479	0.5374	0.0000	5,416.576 3	5,416.576 3	0.3782	0.0000	5,426.030 6
Worker	1.9179	1.4909	14.8974	0.0356	3.6081	0.0255	3.6336	0.9584	0.0235	0.9819	0.0000	3,215.942 3	3,215.942 3	0.1090	0.0000	3,218.667 0
Total	2.6795	25.6576	20.1316	0.0923	4.9579	0.1801	5.1380	1.3480	0.1714	1.5193	0.0000	8,632.518 6	8,632.518 6	0.4872	0.0000	8,644.697 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

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## 3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7615	24.1667	5.2342	0.0567	1.3498	0.1546	1.5044	0.3895	0.1479	0.5374	0.0000	5,416.576 3	5,416.576 3	0.3782	0.0000	5,426.030 6
Worker	1.9179	1.4909	14.8974	0.0356	3.6081	0.0255	3.6336	0.9584	0.0235	0.9819	0.0000	3,215.942 3	3,215.942 3	0.1090	0.0000	3,218.667 0
Total	2.6795	25.6576	20.1316	0.0923	4.9579	0.1801	5.1380	1.3480	0.1714	1.5193	0.0000	8,632.518 6	8,632.518 6	0.4872	0.0000	8,644.697 5

## 3.3 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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## 3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6471	22.1286	4.6314	0.0565	1.3550	0.1046	1.4596	0.3910	0.1001	0.4911	0.0000	5,399.672 3	5,399.672 3	0.3624	0.0000	5,408.732 3
Worker	1.7718	1.3280	13.4577	0.0346	3.6219	0.0250	3.6469	0.9621	0.0230	0.9851	0.0000	3,127.688 5	3,127.688 5	0.0964	0.0000	3,130.097 3
Total	2.4190	23.4566	18.0892	0.0911	4.9769	0.1296	5.1064	1.3531	0.1231	1.4762	0.0000	8,527.360 8	8,527.360 8	0.4588	0.0000	8,538.829 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6471	22.1286	4.6314	0.0565	1.3550	0.1046	1.4596	0.3910	0.1001	0.4911	0.0000	5,399.672 3	5,399.672 3	0.3624	0.0000	5,408.732 3
Worker	1.7718	1.3280	13.4577	0.0346	3.6219	0.0250	3.6469	0.9621	0.0230	0.9851	0.0000	3,127.688 5	3,127.688 5	0.0964	0.0000	3,130.097 3
Total	2.4190	23.4566	18.0892	0.0911	4.9769	0.1296	5.1064	1.3531	0.1231	1.4762	0.0000	8,527.360 8	8,527.360 8	0.4588	0.0000	8,538.829 6

#### 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1625	1.4904	1.4172	2.3000e- 003		0.0820	0.0820	1 1	0.0771	0.0771	0.0000	198.0499	198.0499	0.0478	0.0000	199.2444
Total	0.1625	1.4904	1.4172	2.3000e- 003		0.0820	0.0820		0.0771	0.0771	0.0000	198.0499	198.0499	0.0478	0.0000	199.2444

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3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3601	13.1319	2.6771	0.0366	0.8843	0.0233	0.9077	0.2552	0.0223	0.2775	0.0000	3,505.717 1	3,505.717 1	0.2290	0.0000	3,511.4432
Worker	1.0762	0.7764	8.0610	0.0219	2.3639	0.0159	2.3798	0.6279	0.0147	0.6426	0.0000	1,976.391 5	1,976.391 5	0.0567	0.0000	1,977.809 2
Total	1.4362	13.9084	10.7381	0.0585	3.2482	0.0392	3.2875	0.8831	0.0370	0.9201	0.0000	5,482.108 7	5,482.108 7	0.2858	0.0000	5,489.252 3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1625	1.4904	1.4172	2.3000e- 003		0.0820	0.0820		0.0771	0.0771	0.0000	198.0496	198.0496	0.0478	0.0000	199.2442
Total	0.1625	1.4904	1.4172	2.3000e- 003		0.0820	0.0820		0.0771	0.0771	0.0000	198.0496	198.0496	0.0478	0.0000	199.2442

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## 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3601	13.1319	2.6771	0.0366	0.8843	0.0233	0.9077	0.2552	0.0223	0.2775	0.0000	3,505.717 1	3,505.717 1	0.2290	0.0000	3,511.4432
Worker	1.0762	0.7764	8.0610	0.0219	2.3639	0.0159	2.3798	0.6279	0.0147	0.6426	0.0000	1,976.391 5	1,976.391 5	0.0567	0.0000	1,977.809 2
Total	1.4362	13.9084	10.7381	0.0585	3.2482	0.0392	3.2875	0.8831	0.0370	0.9201	0.0000	5,482.108 7	5,482.108 7	0.2858	0.0000	5,489.252 3

## 3.4 **Demolition - 2017**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1011	80.1011	0.0219	0.0000	80.6486
Total	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1011	80.1011	0.0219	0.0000	80.6486

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3.4 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1010	80.1010	0.0219	0.0000	80.6485
Total	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1010	80.1010	0.0219	0.0000	80.6485

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3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

#### 3.4 Demolition - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
0	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263

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3.4 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530	1 1	0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

#### 3.4 Demolition - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342	1 1 1	0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

3.4 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157

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3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

#### 3.4 Demolition - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173	1 1	0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250

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3.4 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244

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3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7067	290.7067	0.0818	0.0000	292.7523
Total	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7067	290.7067	0.0818	0.0000	292.7523

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3.4 Demolition - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7064	290.7064	0.0818	0.0000	292.7519
Total	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7064	290.7064	0.0818	0.0000	292.7519

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3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

## 3.5 Grading - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			i i i		23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1293	1.5286	0.8726	1.4000e- 003		0.0691	0.0691		0.0636	0.0636	0.0000	129.5096	129.5096	0.0397	0.0000	130.5017
Total	0.1293	1.5286	0.8726	1.4000e- 003	23.5582	0.0691	23.6274	3.8737	0.0636	3.9373	0.0000	129.5096	129.5096	0.0397	0.0000	130.5017

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3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e- 003	1.9600e- 003	0.0194	4.0000e- 005	3.6300e- 003	3.0000e- 005	3.6500e- 003	9.6000e- 004	3.0000e- 005	9.9000e- 004	0.0000	3.4418	3.4418	1.4000e- 004	0.0000	3.4454
Total	2.3800e- 003	1.9600e- 003	0.0194	4.0000e- 005	3.6300e- 003	3.0000e- 005	3.6500e- 003	9.6000e- 004	3.0000e- 005	9.9000e- 004	0.0000	3.4418	3.4418	1.4000e- 004	0.0000	3.4454

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1293	1.5286	0.8726	1.4000e- 003	 	0.0691	0.0691		0.0636	0.0636	0.0000	129.5095	129.5095	0.0397	0.0000	130.5015
Total	0.1293	1.5286	0.8726	1.4000e- 003	23.5582	0.0691	23.6274	3.8737	0.0636	3.9373	0.0000	129.5095	129.5095	0.0397	0.0000	130.5015

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3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e- 003	1.9600e- 003	0.0194	4.0000e- 005	3.6300e- 003	3.0000e- 005	3.6500e- 003	9.6000e- 004	3.0000e- 005	9.9000e- 004	0.0000	3.4418	3.4418	1.4000e- 004	0.0000	3.4454
Total	2.3800e- 003	1.9600e- 003	0.0194	4.0000e- 005	3.6300e- 003	3.0000e- 005	3.6500e- 003	9.6000e- 004	3.0000e- 005	9.9000e- 004	0.0000	3.4418	3.4418	1.4000e- 004	0.0000	3.4454

## 3.5 Grading - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Fugitive Dust	11 11 11				23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6643	7.7676	4.5792	8.1000e- 003		0.3437	0.3437		0.3162	0.3162	0.0000	739.2630	739.2630	0.2301	0.0000	745.0165
Total	0.6643	7.7676	4.5792	8.1000e- 003	23.5582	0.3437	23.9019	3.8737	0.3162	4.1899	0.0000	739.2630	739.2630	0.2301	0.0000	745.0165

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3.5 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237
Total	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			i i i		23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6643	7.7676	4.5792	8.1000e- 003		0.3437	0.3437		0.3162	0.3162	0.0000	739.2621	739.2621	0.2301	0.0000	745.0156
Total	0.6643	7.7676	4.5792	8.1000e- 003	23.5582	0.3437	23.9019	3.8737	0.3162	4.1899	0.0000	739.2621	739.2621	0.2301	0.0000	745.0156

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3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237
Total	0.0123	9.8900e- 003	0.0982	2.2000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7300e- 003	0.0000	19.4056	19.4056	7.2000e- 004	0.0000	19.4237

## 3.5 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109		0.2861	0.2861	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518

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3.5 Grading - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109		0.2861	0.2861	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510

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3.5 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

# 3.5 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152

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3.5 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144

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3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

# 3.5 Grading - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3584	3.9672	2.6401	5.3000e- 003		0.1698	0.1698		0.1562	0.1562	0.0000	465.9321	465.9321	0.1507	0.0000	469.6994
Total	0.3584	3.9672	2.6401	5.3000e- 003	23.5582	0.1698	23.7280	3.8737	0.1562	4.0299	0.0000	465.9321	465.9321	0.1507	0.0000	469.6994

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3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2700e- 003	4.5300e- 003	0.0470	1.3000e- 004	0.0138	9.0000e- 005	0.0139	3.6600e- 003	9.0000e- 005	3.7500e- 003	0.0000	11.5208	11.5208	3.3000e- 004	0.0000	11.5291
Total	6.2700e- 003	4.5300e- 003	0.0470	1.3000e- 004	0.0138	9.0000e- 005	0.0139	3.6600e- 003	9.0000e- 005	3.7500e- 003	0.0000	11.5208	11.5208	3.3000e- 004	0.0000	11.5291

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	11 11 11				23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3583	3.9672	2.6401	5.3000e- 003		0.1698	0.1698		0.1562	0.1562	0.0000	465.9315	465.9315	0.1507	0.0000	469.6988
Total	0.3583	3.9672	2.6401	5.3000e- 003	23.5582	0.1698	23.7280	3.8737	0.1562	4.0299	0.0000	465.9315	465.9315	0.1507	0.0000	469.6988

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3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2700e- 003	4.5300e- 003	0.0470	1.3000e- 004	0.0138	9.0000e- 005	0.0139	3.6600e- 003	9.0000e- 005	3.7500e- 003	0.0000	11.5208	11.5208	3.3000e- 004	0.0000	11.5291
Total	6.2700e- 003	4.5300e- 003	0.0470	1.3000e- 004	0.0138	9.0000e- 005	0.0139	3.6600e- 003	9.0000e- 005	3.7500e- 003	0.0000	11.5208	11.5208	3.3000e- 004	0.0000	11.5291

# 3.6 Paving - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0438	0.4662	0.3382	5.1000e- 004		0.0261	0.0261		0.0240	0.0240	0.0000	47.5724	47.5724	0.0146	0.0000	47.9368
Paving	0.0000	 			 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0438	0.4662	0.3382	5.1000e- 004		0.0261	0.0261		0.0240	0.0240	0.0000	47.5724	47.5724	0.0146	0.0000	47.9368

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3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0438	0.4662	0.3382	5.1000e- 004		0.0261	0.0261		0.0240	0.0240	0.0000	47.5723	47.5723	0.0146	0.0000	47.9367
Paving	0.0000			,		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0438	0.4662	0.3382	5.1000e- 004		0.0261	0.0261		0.0240	0.0240	0.0000	47.5723	47.5723	0.0146	0.0000	47.9367

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3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

3.6 Paving - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5917	271.5917	0.0846	0.0000	273.7054
Paving	0.0000				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5917	271.5917	0.0846	0.0000	273.7054

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3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5914	271.5914	0.0846	0.0000	273.7051
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2145	2.2865	1.9309	2.9700e- 003		0.1248	0.1248		0.1148	0.1148	0.0000	271.5914	271.5914	0.0846	0.0000	273.7051

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3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	<sup>-</sup> /yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146

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3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076	1 1	0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143
Paving	0.0000	 	 			0.0000	0.0000	]   	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

# 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911
Paving	0.0000	   			 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911

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3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908
Paving	0.0000	 			 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

# 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1074	1.1046	1.2529	1.9500e- 003		0.0580	0.0580		0.0533	0.0533	0.0000	171.2008	171.2008	0.0554	0.0000	172.5850
Paving	0.0000				   	0.0000	0.0000	       	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1074	1.1046	1.2529	1.9500e- 003		0.0580	0.0580		0.0533	0.0533	0.0000	171.2008	171.2008	0.0554	0.0000	172.5850

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3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1074	1.1046	1.2529	1.9500e- 003		0.0580	0.0580		0.0533	0.0533	0.0000	171.2006	171.2006	0.0554	0.0000	172.5848
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1074	1.1046	1.2529	1.9500e- 003		0.0580	0.0580		0.0533	0.0533	0.0000	171.2006	171.2006	0.0554	0.0000	172.5848

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3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

# 3.7 Site Preparation - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii				9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1762	0.5278	8.6000e- 004		0.0648	0.0648		0.0596	0.0596	0.0000	79.5024	79.5024	0.0244	0.0000	80.1114
Total	0.1116	1.1762	0.5278	8.6000e- 004	9.0331	0.0648	9.0979	4.9653	0.0596	5.0249	0.0000	79.5024	79.5024	0.0244	0.0000	80.1114

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3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e- 003	1.7600e- 003	0.0175	3.0000e- 005	3.2600e- 003	2.0000e- 005	3.2900e- 003	8.7000e- 004	2.0000e- 005	8.9000e- 004	0.0000	3.0976	3.0976	1.3000e- 004	0.0000	3.1009
Total	2.1400e- 003	1.7600e- 003	0.0175	3.0000e- 005	3.2600e- 003	2.0000e- 005	3.2900e- 003	8.7000e- 004	2.0000e- 005	8.9000e- 004	0.0000	3.0976	3.0976	1.3000e- 004	0.0000	3.1009

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			i i i		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1762	0.5278	8.6000e- 004		0.0648	0.0648		0.0596	0.0596	0.0000	79.5023	79.5023	0.0244	0.0000	80.1113
Total	0.1116	1.1762	0.5278	8.6000e- 004	9.0331	0.0648	9.0979	4.9653	0.0596	5.0249	0.0000	79.5023	79.5023	0.0244	0.0000	80.1113

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3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e- 003	1.7600e- 003	0.0175	3.0000e- 005	3.2600e- 003	2.0000e- 005	3.2900e- 003	8.7000e- 004	2.0000e- 005	8.9000e- 004	0.0000	3.0976	3.0976	1.3000e- 004	0.0000	3.1009
Total	2.1400e- 003	1.7600e- 003	0.0175	3.0000e- 005	3.2600e- 003	2.0000e- 005	3.2900e- 003	8.7000e- 004	2.0000e- 005	8.9000e- 004	0.0000	3.0976	3.0976	1.3000e- 004	0.0000	3.1009

# 3.7 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			 		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5954	6.2899	2.9332	4.9600e- 003		0.3363	0.3363		0.3094	0.3094	0.0000	453.6168	453.6168	0.1412	0.0000	457.1472
Total	0.5954	6.2899	2.9332	4.9600e- 003	9.0331	0.3363	9.3694	4.9653	0.3094	5.2747	0.0000	453.6168	453.6168	0.1412	0.0000	457.1472

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# AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814
Total	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5954	6.2899	2.9332	4.9600e- 003		0.3363	0.3363		0.3094	0.3094	0.0000	453.6163	453.6163	0.1412	0.0000	457.1467
Total	0.5954	6.2899	2.9332	4.9600e- 003	9.0331	0.3363	9.3694	4.9653	0.3094	5.2747	0.0000	453.6163	453.6163	0.1412	0.0000	457.1467

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3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814
Total	0.0111	8.9000e- 003	0.0884	1.9000e- 004	0.0189	1.4000e- 004	0.0191	5.0300e- 003	1.3000e- 004	5.1600e- 003	0.0000	17.4651	17.4651	6.5000e- 004	0.0000	17.4814

# 3.7 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	i i				9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119		0.2870	0.2870	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283

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# AV Annexation 2017 - San Bernardino-Mojave Desert County, Annual

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119	 	0.2870	0.2870	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278

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3.7 Site Preparation - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

# 3.7 Site Preparation - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			i i i		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003		0.2879	0.2879		0.2648	0.2648	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829

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3.7 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003	 	0.2879	0.2879	       	0.2648	0.2648	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824

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3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

# 3.7 Site Preparation - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii		i i i		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3324	3.4625	1.8087	3.2500e- 003		0.1748	0.1748		0.1608	0.1608	0.0000	285.8754	285.8754	0.0925	0.0000	288.1868
Total	0.3324	3.4625	1.8087	3.2500e- 003	9.0331	0.1748	9.2079	4.9653	0.1608	5.1262	0.0000	285.8754	285.8754	0.0925	0.0000	288.1868

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3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6500e- 003	4.0700e- 003	0.0423	1.1000e- 004	0.0124	8.0000e- 005	0.0125	3.2900e- 003	8.0000e- 005	3.3700e- 003	0.0000	10.3687	10.3687	3.0000e- 004	0.0000	10.3762
Total	5.6500e- 003	4.0700e- 003	0.0423	1.1000e- 004	0.0124	8.0000e- 005	0.0125	3.2900e- 003	8.0000e- 005	3.3700e- 003	0.0000	10.3687	10.3687	3.0000e- 004	0.0000	10.3762

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3324	3.4625	1.8087	3.2500e- 003		0.1748	0.1748		0.1608	0.1608	0.0000	285.8750	285.8750	0.0925	0.0000	288.1865
Total	0.3324	3.4625	1.8087	3.2500e- 003	9.0331	0.1748	9.2079	4.9653	0.1608	5.1262	0.0000	285.8750	285.8750	0.0925	0.0000	288.1865

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3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6500e- 003	4.0700e- 003	0.0423	1.1000e- 004	0.0124	8.0000e- 005	0.0125	3.2900e- 003	8.0000e- 005	3.3700e- 003	0.0000	10.3687	10.3687	3.0000e- 004	0.0000	10.3762
Total	5.6500e- 003	4.0700e- 003	0.0423	1.1000e- 004	0.0124	8.0000e- 005	0.0125	3.2900e- 003	8.0000e- 005	3.3700e- 003	0.0000	10.3687	10.3687	3.0000e- 004	0.0000	10.3762

# 4.0 Operational Detail - Mobile

# **4.1 Mitigation Measures Mobile**

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	50.1893	354.5048	689.5107	3.2666	279.9973	1.9835	281.9808	75.0236	1.8474	76.8711	0.0000	303,292.0 378	303,292.0 378	12.9508	0.0000	303,615.8 066
Unmitigated	50.1893	354.5048	689.5107	3.2666	279.9973	1.9835	281.9808	75.0236	1.8474	76.8711	0.0000	303,292.0 378	303,292.0 378	12.9508	0.0000	303,615.8 066

# **4.2 Trip Summary Information**

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.83	4,595.16	1961.35	33,294,606	33,294,606
Industrial Park	18,085.25	9,079.09	2661.74	444,948,278	444,948,278
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	2,405.78	2,447.77	2129.14	6,737,499	6,737,499
Total	181,723.39	205,463.34	102,389.11	735,495,291	735,495,291

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

# **5.1 Mitigation Measures Energy**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33,591.65 72	33,591.65 72	1.3868	0.2869	33,711.832 3
Electricity Unmitigated			,			0.0000	0.0000	,	0.0000	0.0000	0.0000	33,591.65 72	33,591.65 72	1.3868	0.2869	33,711.832 3
NaturalGas Mitigated	0.1988	1.7801	1.3202	0.0108		0.1373	0.1373	,	0.1373	0.1373	0.0000	1,967.222 4	1,967.222 4	0.0377	0.0361	1,978.912 6
NaturalGas Unmitigated	0.1988	1.7801	1.3202	0.0108	     	0.1373	0.1373		0.1373	0.1373	0.0000	1,967.222 4	1,967.222 4	0.0377	0.0361	1,978.912 6

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# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Office Building	6.51915e +006	0.0352	0.3196	0.2684	1.9200e- 003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8864	347.8864	6.6700e- 003	6.3800e- 003	349.9538
Industrial Park	1.27253e +007	0.0686	0.6238	0.5240	3.7400e- 003		0.0474	0.0474		0.0474	0.0474	0.0000	679.0701	679.0701	0.0130	0.0125	683.1055
Regional Shopping Center	8.4497e +006	0.0456	0.4142	0.3479	2.4900e- 003		0.0315	0.0315		0.0315	0.0315	0.0000	450.9079	450.9079	8.6400e- 003	8.2700e- 003	453.5874
Single Family Housing	9.17022e +006	0.0495	0.4226	0.1798	2.7000e- 003		0.0342	0.0342		0.0342	0.0342	0.0000	489.3579	489.3579	9.3800e- 003	8.9700e- 003	492.2659
Total		0.1988	1.7801	1.3202	0.0109		0.1373	0.1373		0.1373	0.1373	0.0000	1,967.222 4	1,967.222 4	0.0377	0.0361	1,978.912 6

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# 5.2 Energy by Land Use - NaturalGas Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Office Building	6.51915e +006	0.0352	0.3196	0.2684	1.9200e- 003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8864	347.8864	6.6700e- 003	6.3800e- 003	349.9538
Industrial Park	1.27253e +007	0.0686	0.6238	0.5240	3.7400e- 003		0.0474	0.0474		0.0474	0.0474	0.0000	679.0701	679.0701	0.0130	0.0125	683.1055
Regional Shopping Center	8.4497e +006	0.0456	0.4142	0.3479	2.4900e- 003		0.0315	0.0315		0.0315	0.0315	0.0000	450.9079	450.9079	8.6400e- 003	8.2700e- 003	453.5874
Single Family Housing	9.17022e +006	0.0495	0.4226	0.1798	2.7000e- 003		0.0342	0.0342		0.0342	0.0342	0.0000	489.3579	489.3579	9.3800e- 003	8.9700e- 003	492.2659
Total		0.1988	1.7801	1.3202	0.0109		0.1373	0.1373		0.1373	0.1373	0.0000	1,967.222 4	1,967.222 4	0.0377	0.0361	1,978.912 6

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5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
General Office Building	1.82312e +007	5,808.848 4	0.2398	0.0496	5,829.629 7
Industrial Park	3.55871e +007	11,338.802 4	0.4681	0.0969	11,379.367 3
Regional Shopping Center	4.92962e +007	15,706.82 67	0.6485	0.1342	15,763.01 84
Single Family Housing	2.31365e +006	737.1797	0.0304	6.3000e- 003	739.8170
Total		33,591.65 72	1.3868	0.2869	33,711.83 23

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5.3 Energy by Land Use - Electricity <u>Mitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
General Office Building	1.82312e +007	5,808.848 4	0.2398	0.0496	5,829.629 7
Industrial Park	3.55871e +007	11,338.802 4	0.4681	0.0969	11,379.367 3
Regional Shopping Center	4.92962e +007	15,706.82 67	0.6485	0.1342	15,763.01 84
Single Family Housing	2.31365e +006	737.1797	0.0304	6.3000e- 003	739.8170
Total		33,591.65 72	1.3868	0.2869	33,711.83 23

#### 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542
Unmitigated	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542

# 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	-/yr		
Architectural Coating	11.4757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	38.0703		1       			0.0000	0.0000	1       	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	15.4983	0.3027	19.1310	0.0347		2.6824	2.6824	1       	2.6824	2.6824	255.1406	107.0022	362.1428	0.2355	0.0201	374.0096
Landscaping	0.0629	0.0219	1.9175	1.0000e- 004		0.0105	0.0105	1       	0.0105	0.0105	0.0000	3.1621	3.1621	3.3000e- 003	0.0000	3.2446
Total	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542

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# 6.2 Area by SubCategory Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	7/yr		
Architectural Coating	11.4757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	38.0703					0.0000	0.0000	,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	15.4983	0.3027	19.1310	0.0347		2.6824	2.6824	,	2.6824	2.6824	255.1406	107.0022	362.1428	0.2355	0.0201	374.0096
Landscaping	0.0629	0.0219	1.9175	1.0000e- 004		0.0105	0.0105	1       	0.0105	0.0105	0.0000	3.1621	3.1621	3.3000e- 003	0.0000	3.2446
Total	65.1071	0.3245	21.0485	0.0348		2.6928	2.6928		2.6928	2.6928	255.1406	110.1643	365.3048	0.2388	0.0201	377.2542

#### 7.0 Water Detail

# 7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e		
Category		МТ	√yr	yr		
,	7,938.909 6	48.2719	1.1963	9,502.217 4		
	7,938.909 6	48.2719	1.1963	9,502.217 4		

# 7.2 Water by Land Use Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr				
General Office Building	331.998 / 203.482	2,203.014 2	10.9048	0.2734	2,557.093 6	
Industrial Park	843.188 / 0	3,765.699 0	27.6197	0.6786	4,658.424 5	
Regional Shopping Center	280.668 / 172.022	1,862.410 2	9.2188	0.2311	2,161.746 1	
Single Family Housing	16.093 / 10.1456	107.7862	0.5286	0.0133	124.9532	
Total		7,938.909 6	48.2719	1.1963	9,502.217 4	

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7.2 Water by Land Use Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr				
General Office Building	331.998 / 203.482	2,203.014 2	10.9048	0.2734	2,557.093 6	
Industrial Park	843.188 / 0	3,765.699 0	27.6197	0.6786	4,658.424 5	
Regional Shopping Center	280.668 / 172.022	1,862.410 2	9.2188	0.2311	2,161.746 1	
Single Family Housing	16.093 / 10.1456	107.7862	0.5286	0.0133	124.9532	
Total		7,938.909 6	48.2719	1.1963	9,502.217 4	

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

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# Category/Year

	Total CO2	CH4	N2O	CO2e		
	MT/yr					
,	2,136.788 4	126.2806	0.0000	5,293.802 9		
"	2,136.788 4	126.2806	0.0000	5,293.802 9		

# 8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
General Office Building	1737.19	352.6339	20.8401	0.0000	873.6355
Industrial Park	4521.31	917.7851	54.2395	0.0000	2,273.773 7
Regional Shopping Center	3978.56	807.6117	47.7285	0.0000	2,000.823 9
Single Family Housing	289.46	58.7578	3.4725	0.0000	145.5699
Total		2,136.788 4	126.2806	0.0000	5,293.802 9

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## 8.2 Waste by Land Use

#### **Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	/yr	
General Office Building	1737.19	352.6339	20.8401	0.0000	873.6355
Industrial Park	4521.31	917.7851	54.2395	0.0000	2,273.773 7
Regional Shopping Center	3978.56	807.6117	47.7285	0.0000	2,000.823 9
Single Family Housing	289.46	58.7578	3.4725	0.0000	145.5699
Total		2,136.788 4	126.2806	0.0000	5,293.802 9

## 9.0 Operational Offroad

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

## **10.0 Stationary Equipment**

## **Fire Pumps and Emergency Generators**

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

#### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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#### **User Defined Equipment**

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Equipment Type	Number
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# 11.0 Vegetation

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AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# AV Annexation 2017 San Bernardino-Mojave Desert County, Winter

#### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	247.00	Dwelling Unit	263.00	444,600.00	706
Regional Shopping Center	3,789.10	1000sqft	424.00	3,789,101.00	0
General Office Building	1,867.95	1000sqft	209.00	1,867,950.00	0
Industrial Park	3,646.22	1000sqft	408.00	3,646,216.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				

 CO2 Intensity
 702.44
 CH4 Intensity
 0.029
 N2O Intensity
 0.006

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proposed 2017 Annexation area (Golden Triangle Area).

Construction Phase - GP buildout is 2025.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project Traffic Report.

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Table Name	Column Name	Default Value	New Value		
tblConstructionPhase	NumDays	11,000.00	1,000.00		
tblConstructionPhase	NumDays	155,000.00	1,000.00		
tblConstructionPhase	NumDays	10,000.00	1,000.00		
tblConstructionPhase	NumDays	15,500.00	1,000.00		
tblConstructionPhase	NumDays	11,000.00	1,000.00		
tblConstructionPhase	NumDays	6,000.00	1,000.00		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblConstructionPhase	PhaseEndDate	10/29/2017	8/27/2021		
tblGrading	AcresOfGrading	2,500.00	38,750.00		
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00		
tblLandUse	BuildingSpaceSquareFeet	3,646,220.00	3,646,216.00		
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00		
tblLandUse	LandUseSquareFeet	3,646,220.00	3,646,216.00		
tblLandUse	LotAcreage	80.19	263.00		
tblLandUse	LotAcreage	86.99	424.00		
tblLandUse	LotAcreage	42.88	209.00		
tblLandUse	LotAcreage	83.71	408.00		
tblProjectCharacteristics	OperationalYear	2018	2025		
tblVehicleTrips	CC_TL	7.30	100.00		
tblVehicleTrips	CNW_TL	7.30	100.00		
tblVehicleTrips	CW_TL	9.50	100.00		
tblVehicleTrips	WD_TR	11.03	9.74		

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tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

## 2.0 Emissions Summary

#### 2.1 Overall Construction (Maximum Daily Emission)

#### **Unmitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e				
Year		lb/day											lb/day							
2017	281.6781	436.9509	345.8670	0.9698	110.0695	13.3101	123.3796	29.8224	12.3842	42.2066	0.0000	99,297.48 50	99,297.48 50	10.6237	0.0000	99,563.07 82				
2018	275.9099	397.8407	311.6813	0.9585	110.0693	11.4115	121.4808	29.8224	10.6141	40.4364	0.0000	97,935.85 86	97,935.85 86	10.2676	0.0000	98,192.54 93				
2019	271.8974	368.8377	286.6611	0.9420	110.0691	10.2426	120.3117	29.8223	9.5219	39.3442	0.0000	96,035.25 04	96,035.25 04	10.0210	0.0000	96,285.77 43				
2020	268.3280	338.1476	265.8491	0.9285	110.0689	9.0473	119.1162	29.8222	8.4005	38.2227	0.0000	94,335.21 86	94,335.21 86	9.7293	0.0000	94,578.45 05				
2021	265.4049	311.3829	249.9255	0.9160	110.0687	7.8156	117.8843	29.8221	7.2413	37.0634	0.0000	93,103.61 21	93,103.61 21	9.5265	0.0000	93,341.77 49				
Maximum	281.6781	436.9509	345.8670	0.9698	110.0695	13.3101	123.3796	29.8224	12.3842	42.2066	0.0000	99,297.48 50	99,297.48 50	10.6237	0.0000	99,563.07 82				

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

## **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	lb/day										
2017	281.6781	436.9509	345.8670	0.9698	110.0695	13.3101	123.3796	29.8224	12.3842	42.2066	0.0000	99,297.48 50	99,297.48 50	10.6237	0.0000	99,563.07 82
2018	275.9099	397.8407	311.6813	0.9585	110.0693	11.4115	121.4808	29.8224	10.6141	40.4364	0.0000	97,935.85 85	97,935.85 85	10.2676	0.0000	98,192.54 92
2019	271.8974	368.8377	286.6611	0.9420	110.0691	10.2426	120.3117	29.8223	9.5219	39.3442	0.0000	96,035.25 04	96,035.25 04	10.0210	0.0000	96,285.77 42
2020	268.3280	338.1476	265.8491	0.9285	110.0689	9.0473	119.1162	29.8222	8.4005	38.2227	0.0000	94,335.21 86	94,335.21 86	9.7293	0.0000	94,578.45 05
2021	265.4049	311.3829	249.9255	0.9160	110.0687	7.8156	117.8843	29.8221	7.2413	37.0634	0.0000	93,103.61 21	93,103.61 21	9.5265	0.0000	93,341.77 48
Maximum	281.6781	436.9509	345.8670	0.9698	110.0695	13.3101	123.3796	29.8224	12.3842	42.2066	0.0000	99,297.48 50	99,297.48 50	10.6237	0.0000	99,563.07 82
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Energy	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Mobile	363.5594	2,466.243 7	4,671.230 7	22.4286	1,990.298 0	13.9282	2,004.226 3	532.4526	12.9735	545.4261		2,295,768. 3282	2,295,768. 3282	102.4969		2,298,330. 7501
Total	1,014.839 3	2,483.622 9	5,166.379 6	23.3345	1,990.298 0	80.2202	2,070.518 2	532.4526	79.2655	611.7180	6,859.617 5	2,310,566. 0254	2,317,425. 6429	109.0953	0.7574	2,320,378. 7315

#### **Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Energy	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Mobile	363.5594	2,466.243 7	4,671.230 7	22.4286	1,990.298 0	13.9282	2,004.226 3	532.4526	12.9735	545.4261		2,295,768. 3282	2,295,768. 3282	102.4969		2,298,330. 7501
Total	1,014.839 3	2,483.622 9	5,166.379 6	23.3345	1,990.298 0	80.2202	2,070.518 2	532.4526	79.2655	611.7180	6,859.617 5	2,310,566. 0254	2,317,425. 6429	109.0953	0.7574	2,320,378. 7315

#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	10/30/2017	8/27/2021	5	1000	
2	Building Construction	Building Construction	10/30/2017	8/27/2021	5	1000	
3	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
4	Grading	Grading	10/30/2017	8/27/2021	5	1000	
5	Paving	Paving	10/30/2017	8/27/2021	5	1000	
6	Site Preparation	Site Preparation	10/30/2017	8/27/2021	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 900,315; Residential Outdoor: 300,105; Non-Residential Indoor: 13,954,901; Non-Residential Outdoor: 4,651,634; Striped

Parking Area: 0 (Architectural Coating - sqft)

#### **OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT** 

#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	686.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,431.00	1,551.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

## 3.2 Architectural Coating - 2017 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	1	0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	229.8454	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2017 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	<del></del> -       	0.0000
Worker	3.9770	2.8433	28.1807	0.0570	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		5,660.545 4	5,660.545 4	0.2335		5,666.381 9
Total	3.9770	2.8433	28.1807	0.0570	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		5,660.545 4	5,660.545 4	0.2335		5,666.381 9

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e- 003		0.1733	0.1733	 	0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
Total	229.8454	2.1850	1.8681	2.9700e- 003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.2 Architectural Coating - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	<del></del> -       	0.0000
Worker	3.9770	2.8433	28.1807	0.0570	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		5,660.545 4	5,660.545 4	0.2335		5,666.381 9
Total	3.9770	2.8433	28.1807	0.0570	5.6353	0.0420	5.6773	1.4948	0.0387	1.5335		5,660.545 4	5,660.545 4	0.2335		5,666.381 9

## 3.2 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267	     	282.1171
Total	229.8117	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# 3.2 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.5523	2.4724	24.6103	0.0553	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		5,502.380 4	5,502.380 4	0.2041		5,507.483 2
Total	3.5523	2.4724	24.6103	0.0553	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		5,502.380 4	5,502.380 4	0.2041		5,507.483 2

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267	,	282.1171
Total	229.8117	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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3.2 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.5523	2.4724	24.6103	0.0553	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		5,502.380 4	5,502.380 4	0.2041		5,507.483 2
Total	3.5523	2.4724	24.6103	0.0553	5.6353	0.0404	5.6757	1.4948	0.0372	1.5320		5,502.380 4	5,502.380 4	0.2041		5,507.483 2

## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288	       	0.1288	0.1288		281.4481	281.4481	0.0238	       	282.0423
Total	229.7795	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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## 3.2 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.2309	2.1716	21.7799	0.0534	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,315.454 7	5,315.454 7	0.1790		5,319.930 4
Total	3.2309	2.1716	21.7799	0.0534	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,315.454 7	5,315.454 7	0.1790		5,319.930 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000		! !	0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	,	282.0423
Total	229.7795	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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3.2 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.2309	2.1716	21.7799	0.0534	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,315.454 7	5,315.454 7	0.1790		5,319.930 4
Total	3.2309	2.1716	21.7799	0.0534	5.6353	0.0391	5.6744	1.4948	0.0360	1.5308		5,315.454 7	5,315.454 7	0.1790		5,319.930 4

## 3.2 Architectural Coating - 2020 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	229.7553	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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## 3.2 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	2.9772	1.9268	19.6035	0.0517	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,149.824 4	5,149.824 4	0.1578	       	5,153.768 7
Total	2.9772	1.9268	19.6035	0.0517	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,149.824 4	5,149.824 4	0.1578		5,153.768 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003	 	0.1109	0.1109	       	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	 	281.9928
Total	229.7553	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.2 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	2.9772	1.9268	19.6035	0.0517	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,149.824 4	5,149.824 4	0.1578	       	5,153.768 7
Total	2.9772	1.9268	19.6035	0.0517	5.6353	0.0381	5.6735	1.4948	0.0351	1.5299		5,149.824 4	5,149.824 4	0.1578		5,153.768 7

## 3.2 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	229.7320	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.2 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.7726	1.7258	17.9901	0.0501	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		4,986.048 4	4,986.048 4	0.1423		4,989.606 5
Total	2.7726	1.7258	17.9901	0.0501	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		4,986.048 4	4,986.048 4	0.1423		4,989.606 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	229.5131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941	1	0.0941	0.0941	0.0000	281.4481	281.4481	0.0193	 	281.9309
Total	229.7320	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.2 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.7726	1.7258	17.9901	0.0501	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		4,986.048 4	4,986.048 4	0.1423		4,989.606 5
Total	2.7726	1.7258	17.9901	0.0501	5.6353	0.0372	5.6725	1.4948	0.0343	1.5290		4,986.048 4	4,986.048 4	0.1423		4,989.606 5

# 3.3 Building Construction - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2017 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6984	207.1855	53.6158	0.4307	10.5080	1.7890	12.2969	3.0254	1.7114	4.7369		45,337.66 41	45,337.66 41	3.5921		45,427.46 72
Worker	19.8910	14.2205	140.9445	0.2849	28.1849	0.2099	28.3947	7.4759	0.1936	7.6695		28,310.97 83	28,310.97 83	1.1676		28,340.16 95
Total	27.5894	221.4059	194.5603	0.7157	38.6928	1.9988	40.6916	10.5014	1.9050	12.4064		73,648.64 24	73,648.64 24	4.7598		73,767.63 67

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8
Total	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.979 7	2,650.979 7	0.6531		2,667.307 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2017 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6984	207.1855	53.6158	0.4307	10.5080	1.7890	12.2969	3.0254	1.7114	4.7369		45,337.66 41	45,337.66 41	3.5921		45,427.46 72
Worker	19.8910	14.2205	140.9445	0.2849	28.1849	0.2099	28.3947	7.4759	0.1936	7.6695		28,310.97 83	28,310.97 83	1.1676		28,340.16 95
Total	27.5894	221.4059	194.5603	0.7157	38.6928	1.9988	40.6916	10.5014	1.9050	12.4064		73,648.64 24	73,648.64 24	4.7598		73,767.63 67

## 3.3 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# 3.3 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7323	193.7978	47.4434	0.4294	10.5078	1.4093	11.9170	3.0254	1.3482	4.3735		45,223.83 87	45,223.83 87	3.4358	       	45,309.73 46
Worker	17.7665	12.3657	123.0874	0.2767	28.1849	0.2021	28.3869	7.4759	0.1862	7.6622		27,519.92 29	27,519.92 29	1.0209	       	27,545.44 45
Total	24.4988	206.1635	170.5308	0.7061	38.6926	1.6113	40.3039	10.5013	1.5344	12.0357		72,743.76 16	72,743.76 16	4.4567		72,855.17 91

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# 3.3 Building Construction - 2018 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7323	193.7978	47.4434	0.4294	10.5078	1.4093	11.9170	3.0254	1.3482	4.3735		45,223.83 87	45,223.83 87	3.4358	     	45,309.73 46
Worker	17.7665	12.3657	123.0874	0.2767	28.1849	0.2021	28.3869	7.4759	0.1862	7.6622		27,519.92 29	27,519.92 29	1.0209	     	27,545.44 45
Total	24.4988	206.1635	170.5308	0.7061	38.6926	1.6113	40.3039	10.5013	1.5344	12.0357		72,743.76 16	72,743.76 16	4.4567		72,855.17 91

## 3.3 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.3 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0049	181.5554	42.6213	0.4247	10.5076	1.1929	11.7005	3.0253	1.1412	4.1664		44,754.47 52	44,754.47 52	3.3635	       	44,838.56 14
Worker	16.1590	10.8613	108.9312	0.2672	28.1849	0.1956	28.3805	7.4759	0.1802	7.6562		26,585.02 18	26,585.02 18	0.8954	     	26,607.40 69
Total	22.1639	192.4167	151.5525	0.6918	38.6924	1.3885	40.0809	10.5012	1.3214	11.8226		71,339.49 69	71,339.49 69	4.2589		71,445.96 82

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.3 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0049	181.5554	42.6213	0.4247	10.5076	1.1929	11.7005	3.0253	1.1412	4.1664		44,754.47 52	44,754.47 52	3.3635		44,838.56 14
Worker	16.1590	10.8613	108.9312	0.2672	28.1849	0.1956	28.3805	7.4759	0.1802	7.6562		26,585.02 18	26,585.02 18	0.8954		26,607.40 69
Total	22.1639	192.4167	151.5525	0.6918	38.6924	1.3885	40.0809	10.5012	1.3214	11.8226		71,339.49 69	71,339.49 69	4.2589		71,445.96 82

## 3.3 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171	1 1	1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0953	165.6416	37.6992	0.4215	10.5074	0.8040	11.3113	3.0252	0.7691	3.7943		44,437.37 08	44,437.37 08	3.2159	       	44,517.76 83
Worker	14.8901	9.6369	98.0462	0.2587	28.1849	0.1907	28.3755	7.4759	0.1756	7.6515		25,756.62 90	25,756.62 90	0.7891	       	25,776.35 62
Total	19.9854	175.2785	135.7453	0.6802	38.6922	0.9946	39.6868	10.5012	0.9447	11.4458		70,193.99 97	70,193.99 97	4.0050		70,294.12 44

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.3 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0953	165.6416	37.6992	0.4215	10.5074	0.8040	11.3113	3.0252	0.7691	3.7943		44,437.37 08	44,437.37 08	3.2159	<del></del>	44,517.76 83
Worker	14.8901	9.6369	98.0462	0.2587	28.1849	0.1907	28.3755	7.4759	0.1756	7.6515		25,756.62 90	25,756.62 90	0.7891	       	25,776.35 62
Total	19.9854	175.2785	135.7453	0.6802	38.6922	0.9946	39.6868	10.5012	0.9447	11.4458		70,193.99 97	70,193.99 97	4.0050		70,294.12 44

## 3.3 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3576	150.6388	33.5319	0.4191	10.5072	0.2770	10.7842	3.0251	0.2649	3.2900		44,203.14 16	44,203.14 16	3.1193	     	44,281.12 51
Worker	13.8670	8.6316	89.9766	0.2504	28.1849	0.1861	28.3710	7.4759	0.1714	7.6473		24,937.51 02	24,937.51 02	0.7118	       	24,955.30 62
Total	18.2245	159.2704	123.5085	0.6695	38.6921	0.4631	39.1551	10.5011	0.4363	10.9373		69,140.65 18	69,140.65 18	3.8312		69,236.43 12

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 3.3 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3576	150.6388	33.5319	0.4191	10.5072	0.2770	10.7842	3.0251	0.2649	3.2900		44,203.14 16	44,203.14 16	3.1193	       	44,281.12 51
Worker	13.8670	8.6316	89.9766	0.2504	28.1849	0.1861	28.3710	7.4759	0.1714	7.6473		24,937.51 02	24,937.51 02	0.7118	       	24,955.30 62
Total	18.2245	159.2704	123.5085	0.6695	38.6921	0.4631	39.1551	10.5011	0.4363	10.9373		69,140.65 18	69,140.65 18	3.8312		69,236.43 12

### 3.4 Demolition - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283	1.0730		3,951.107 0

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

#### 3.4 **Demolition - 2018**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

#### 3.4 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

#### 3.4 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003	       	112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

#### 3.4 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.4 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

## 3.5 Grading - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.886 3	6,344.886 3	1.9441		6,393.487 9
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744		6,344.886 3	6,344.886 3	1.9441		6,393.487 9

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006
Total	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		! !	0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.886 3	6,344.886 3	1.9441	,	6,393.487 8
Total	5.7483	67.9396	38.7826	0.0620	47.1165	3.0727	50.1892	7.7475	2.8269	10.5744	0.0000	6,344.886 3	6,344.886 3	1.9441		6,393.487 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006
Total	0.1160	0.0829	0.8216	1.6600e- 003	0.1643	1.2200e- 003	0.1655	0.0436	1.1300e- 003	0.0447		165.0305	165.0305	6.8100e- 003		165.2006

## 3.5 Grading - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		! !	0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

## 3.5 Grading - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		!	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

### 3.5 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i i	0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739	 	2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000		: :	0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424	i ! !	6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

### 3.5 Grading - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003	       	145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	,	0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003	,	145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

## 3.6 Paving - 2017

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665		2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9449	20.7178	15.0320	0.0228		1.1592	1.1592		1.0665	1.0665	0.0000	2,330.646 1	2,330.646 1	0.7141		2,348.498 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

# 3.6 Paving - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		       	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561	 	0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000	i i				0.0000	0.0000	 	0.0000	0.0000		       	0.0000		     	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

# 3.6 Paving - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		       	0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000	i i	i i			0.0000	0.0000		0.0000	0.0000		i i	0.0000		     	0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003	       	116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

## 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000				 	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		i i i	0.0000		       	0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

## 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000		 		 	0.0000	0.0000	 	0.0000	0.0000			0.0000		 	0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000		i i	0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

#### 3.7 Site Preparation - 2017

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934	   	3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790		3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2017
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806
Total	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.950 0	3,894.950 0	1.1934		3,924.785 2
Total	4.9608	52.2754	23.4554	0.0380	18.0663	2.8786	20.9448	9.9307	2.6483	12.5790	0.0000	3,894.950 0	3,894.950 0	1.1934		3,924.785 2

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806
Total	0.1044	0.0746	0.7394	1.4900e- 003	0.1479	1.1000e- 003	0.1490	0.0392	1.0200e- 003	0.0402		148.5274	148.5274	6.1300e- 003		148.6806

#### 3.7 Site Preparation - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112

#### 3.7 Site Preparation - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		1 1 1	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904		2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917	i i	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904		2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	       	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900

#### 3.7 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974	1 1 1	2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918	       	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

#### 3.7 Site Preparation - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		! !	0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	       	2.0445	2.0445		1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	; ! ! !	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

3.7 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Mitigated	363.5594	2,466.243 7	4,671.230 7	22.4286	1,990.298 0	13.9282	2,004.226 3	532.4526	12.9735	545.4261		2,295,768. 3282	2,295,768. 3282	102.4969		2,298,330. 7501
Unmitigated	363.5594	2,466.243 7	4,671.230 7	22.4286	1,990.298 0	13.9282	2,004.226 3	532.4526	12.9735	545.4261	,	2,295,768. 3282	2,295,768. 3282	102.4969		2,298,330. 7501

#### **4.2 Trip Summary Information**

	Ave	rage Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.83	4,595.16	1961.35	33,294,606	33,294,606
Industrial Park	18,085.25	9,079.09	2661.74	444,948,278	444,948,278
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	2,405.78	2,447.77	2129.14	6,737,499	6,737,499
Total	181,723.39	205,463.34	102,389.11	735,495,291	735,495,291

#### **4.3 Trip Type Information**

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

### 5.0 Energy Detail

Historical Energy Use: N

#### **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
NaturalGas Mitigated	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8
Unmitigated	1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.145 2	11,882.145 2	0.2277	0.2178	11,952.754 8

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	ay		
General Office Building	17860.7	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	)   	0.1331	0.1331		2,101.255 6	2,101.255 6	0.0403	0.0385	2,113.7423
Industrial Park	34863.8	0.3760	3.4180	2.8711	0.0205		0.2598	0.2598	,       	0.2598	0.2598		4,101.625 7	4,101.625 7	0.0786	0.0752	4,125.999 7
Regional Shopping Center	23149.8	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	25123.9	0.2709	2.3153	0.9853	0.0148		0.1872	0.1872	,	0.1872	0.1872		2,955.752 1	2,955.752 1	0.0567	0.0542	2,973.316 6
Total		1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.14 52	11,882.14 52	0.2277	0.2178	11,952.75 48

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

# **5.2 Energy by Land Use - NaturalGas Mitigated**

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	lay		
General Office Building	17.8607	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	i i	0.1331	0.1331		2,101.255 6	2,101.255 6	0.0403	0.0385	2,113.7423
Industrial Park	34.8638	0.3760	3.4180	2.8711	0.0205		0.2598	0.2598	 	0.2598	0.2598		4,101.625 7	4,101.625 7	0.0786	0.0752	4,125.999 7
Regional Shopping Center	23.1498	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,       	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	25.1239	0.2709	2.3153	0.9853	0.0148		0.1872	0.1872	,       	0.1872	0.1872		2,955.752 1	2,955.752 1	0.0567	0.0542	2,973.316 6
Total		1.0892	9.7540	7.2337	0.0594		0.7525	0.7525		0.7525	0.7525		11,882.14 52	11,882.14 52	0.2277	0.2178	11,952.75 48

#### 6.0 Area Detail

## **6.1 Mitigation Measures Area**

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Mitigated	650.1907	7.6251	487.9152	0.8465	 	65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66
Unmitigated	650.1907	7.6251	487.9152	0.8465	i i	65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66

# 6.2 Area by SubCategory

## <u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	62.8803					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	208.6044		1 1 1			0.0000	0.0000		0.0000	0.0000			0.0000		 	0.0000
Hearth	378.0076	7.3821	466.6093	0.8454		65.4231	65.4231		65.4231	65.4231	6,859.617 5	2,876.823 5	9,736.441 0	6.3303	0.5396	10,055.48 73
Landscaping	0.6985	0.2431	21.3059	1.1500e- 003		0.1163	0.1163		0.1163	0.1163		38.7285	38.7285	0.0404		39.7393
Total	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66

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#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

## 6.2 Area by SubCategory

#### **Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	62.8803					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	208.6044					0.0000	0.0000	i i	0.0000	0.0000			0.0000		       	0.0000
Hearth	378.0076	7.3821	466.6093	0.8454		65.4231	65.4231	i i	65.4231	65.4231	6,859.617 5	2,876.823 5	9,736.441 0	6.3303	0.5396	10,055.48 73
Landscaping	0.6985	0.2431	21.3059	1.1500e- 003	 	0.1163	0.1163	1 1 1 1	0.1163	0.1163		38.7285	38.7285	0.0404		39.7393
Total	650.1907	7.6251	487.9152	0.8465		65.5394	65.5394		65.5394	65.5394	6,859.617 5	2,915.552 0	9,775.169 5	6.3707	0.5396	10,095.22 66

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

#### AV Annexation 2017 - San Bernardino-Mojave Desert County, Winter

#### **Fire Pumps and Emergency Generators**

|--|

#### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

#### **User Defined Equipment**

Equipment Type	Number

## 11.0 Vegetation

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AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

#### **AV Annexation 2017 plus SB County**

#### San Bernardino-Mojave Desert County, Annual

#### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	465.00	Dwelling Unit	1,600.00	837,000.00	1330
General Office Building	1,867.96	1000sqft	209.00	1,867,957.00	0
Regional Shopping Center	3,789.10	1000sqft	557.00	3,789,101.00	0
Industrial Park	3,865.00	1000sqft	408.00	3,865,000.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edisc	on			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Buildout of 2017 Annexation (Golden Triangle Area) plus remaining county land within 2008 Annexation area.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project specific Traffic Study.

Construction Phase - GP buildout is 2025.

AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	1/6/2817	9/8/2022
tblConstructionPhase	PhaseEndDate	9/9/2732	5/25/2022
tblConstructionPhase	PhaseEndDate	2/25/2056	8/27/2021
tblConstructionPhase	PhaseEndDate	7/25/2138	12/24/2021
tblConstructionPhase	PhaseEndDate	11/8/2774	7/8/2022
tblConstructionPhase	PhaseEndDate	2/24/2079	12/24/2021
tblConstructionPhase	PhaseStartDate	11/9/2774	11/9/2018
tblConstructionPhase	PhaseStartDate	7/26/2138	7/26/2018
tblConstructionPhase	PhaseStartDate	2/25/2079	2/25/2018
tblConstructionPhase	PhaseStartDate	9/10/2732	9/10/2018
tblConstructionPhase	PhaseStartDate	2/26/2056	2/26/2018
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LandUseSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LotAcreage	150.97	1,600.00
tblLandUse	LotAcreage	42.88	209.00
tblLandUse	LotAcreage	86.99	557.00

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tblLandUse	LotAcreage	88.73	408.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00
tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# 2.0 Emissions Summary

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

# 2.1 Overall Construction <a href="Unmitigated Construction">Unmitigated Construction</a>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2017	0.0941	0.9633	0.5323	9.0000e- 004	2.7200e- 003	0.0494	0.0521	7.2000e- 004	0.0460	0.0467	0.0000	82.6825	82.6825	0.0220	0.0000	83.2327
2018	7.7812	31.4153	21.9375	0.0628	34.9994	1.0503	36.0496	9.4926	0.9740	10.4666	0.0000	5,813.107 1	5,813.107 1	0.7363	0.0000	5,831.514 8
2019	37.6346	49.7046	38.9980	0.1294	38.6080	1.3429	39.9510	10.4695	1.2486	11.7180	0.0000	11,968.526 1	11,968.526 1	1.1908	0.0000	11,998.297 1
2020	37.3150	45.7277	36.2440	0.1280	38.6311	1.1899	39.8210	10.4757	1.1050	11.5806	0.0000	11,802.368 2	11,802.368 2	1.1591	0.0000	11,831.346 1
2021	36.6294	40.2909	32.7759	0.1237	38.6018	0.9423	39.5441	10.4678	0.8729	11.3407	0.0000	11,421.210 5	11,421.210 5	1.0790	0.0000	11,448.186 0
2022	23.3440	10.0450	9.8572	0.0439	2.5748	0.1128	2.6876	0.6966	0.1057	0.8023	0.0000	4,080.982 0	4,080.982 0	0.2556	0.0000	4,087.372 5
Maximum	37.6346	49.7046	38.9980	0.1294	38.6311	1.3429	39.9510	10.4757	1.2486	11.7180	0.0000	11,968.52 61	11,968.52 61	1.1908	0.0000	11,998.29 71

#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

#### 2.1 Overall Construction

#### **Mitigated Construction**

2

3

4

5

1-30-2018

4-30-2018

7-30-2018

10-30-2018

4-29-2018

7-29-2018

10-29-2018

1-29-2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tor	ns/yr							МТ	-/yr		
2017	0.0941	0.9633	0.5323	9.0000e- 004	2.7200e- 003	0.0494	0.0521	7.2000e- 004	0.0460	0.0467	0.0000	82.6824	82.6824	0.0220	0.0000	83.232
2018	7.7812	31.4153	21.9375	0.0628	34.9994	1.0503	36.0496	9.4926	0.9740	10.4666	0.0000	5,813.105 1	5,813.105 1	0.7363	0.0000	5,831.51 8
2019	37.6346	49.7046	38.9979	0.1294	38.6080	1.3429	39.9510	10.4695	1.2486	11.7180	0.0000	11,968.523 4	11,968.523 4	1.1908	0.0000	11,998.2 4
2020	37.3150	45.7276	36.2440	0.1280	38.6311	1.1899	39.8210	10.4757	1.1050	11.5806	0.0000	11,802.365 6	11,802.365 6	1.1591	0.0000	11,831.3 <sup>4</sup>
2021	36.6294	40.2909	32.7759	0.1237	38.6018	0.9423	39.5441	10.4678	0.8729	11.3407	0.0000	11,421.208 1	11,421.208 1	1.0790	0.0000	11,448.18 5
2022	23.3440	10.0450	9.8572	0.0439	2.5748	0.1128	2.6876	0.6966	0.1057	0.8023	0.0000	4,080.981 6	4,080.981 6	0.2556	0.0000	4,087.37 2
Maximum	37.6346	49.7046	38.9979	0.1294	38.6311	1.3429	39.9510	10.4757	1.2486	11.7180	0.0000	11,968.52 34	11,968.52 34	1.1908	0.0000	11,998.2 44
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quarter	Sta	art Date	End	Date	Maximum Unmitigated ROG + NOX (tons/quarter)						num Mitigat	ed ROG + N	OX (tons/qu	arter)		
1	10-	30-2017	1-29	-2018			1.4943					1.4943			1	

4.0271

5.5760

14.3360

21.7556

4.0271

5.5760

14.3360

21.7556

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6	1-30-2019	4-29-2019	21.4377	21.4377
7	4-30-2019	7-29-2019	21.6845	21.6845
8	7-30-2019	10-29-2019	21.9188	21.9188
9	10-30-2019	1-29-2020	21.5469	21.5469
10	1-30-2020	4-29-2020	20.5407	20.5407
11	4-30-2020	7-29-2020	20.5579	20.5579
12	7-30-2020	10-29-2020	20.7758	20.7758
13	10-30-2020	1-29-2021	20.4434	20.4434
14	1-30-2021	4-29-2021	19.3412	19.3412
15	4-30-2021	7-29-2021	19.5805	19.5805
16	7-30-2021	10-29-2021	19.0033	19.0033
17	10-30-2021	1-29-2022	17.2387	17.2387
18	1-30-2022	4-29-2022	14.6820	14.6820
19	4-30-2022	7-29-2022	10.3111	10.3111
20	7-30-2022	9-30-2022	3.7016	3.7016
		Highest	21.9188	21.9188

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Area	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692		5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632
Energy	0.2465	2.1905	1.5103	0.0135		0.1703	0.1703		0.1703	0.1703	0.0000	37,362.54 25	37,362.54 25	1.4885	0.3430	37,501.97 84
Mobile	51.6827	364.7306	717.1418	3.4028	292.4248	2.0668	294.4916	78.3535	1.9251	80.2786	0.0000	315,918.2 718	315,918.2 718	13.3988	0.0000	316,253.2 407
Waste						0.0000	0.0000		0.0000	0.0000	2,243.793 1	0.0000	2,243.793 1	132.6044	0.0000	5,558.902 4
Water						0.0000	0.0000		0.0000	0.0000	487.5385	7,772.463 1	8,260.001 6	50.3958	1.2488	9,892.027 9
Total	134.0181	367.5314	758.2046	3.4817	292.4248	7.3064	299.7312	78.3535	7.1646	85.5181	3,211.656 9	361,260.5 288	364,472.1 857	198.3365	1.6296	369,916.2 125

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

## 2.2 Overall Operational

#### **Mitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	<sup>7</sup> /yr		
Area	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692		5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632
Energy	0.2465	2.1905	1.5103	0.0135		0.1703	0.1703		0.1703	0.1703	0.0000	37,362.54 25	37,362.54 25	1.4885	0.3430	37,501.97 84
Mobile	51.6827	364.7306	717.1418	3.4028	292.4248	2.0668	294.4916	78.3535	1.9251	80.2786	0.0000	315,918.2 718	315,918.2 718	13.3988	0.0000	316,253.2 407
Waste			i i			0.0000	0.0000		0.0000	0.0000	2,243.793 1	0.0000	2,243.793 1	132.6044	0.0000	5,558.902 4
Water		 				0.0000	0.0000		0.0000	0.0000	487.5385	7,772.463 1	8,260.001 6	50.3958	1.2488	9,892.027 9
Total	134.0181	367.5314	758.2046	3.4817	292.4248	7.3064	299.7312	78.3535	7.1646	85.5181	3,211.656 9	361,260.5 288	364,472.1 857	198.3365	1.6296	369,916.2 125

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 3.0 Construction Detail

#### **Construction Phase**

#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
2	Site Preparation	Site Preparation	2/26/2018	12/24/2021	5	1000	
3	Grading	Grading	2/25/2018	12/24/2021	5	1000	
4	Building Construction	Building Construction	7/26/2018	5/25/2022	5	1000	
5	Paving	Paving	9/10/2018	7/8/2022	5	1000	
6	Architectural Coating	Architectural Coating	11/9/2018	9/8/2022	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 1,694,925; Residential Outdoor: 564,975; Non-Residential Indoor: 14,283,087; Non-Residential Outdoor: 4,761,029; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Scrapers

Welders

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46:

0.48

0.45

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2

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

#### **Trips and VMT**

**Building Construction** 

Grading

#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	720.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,601.00	1,610.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### **3.1 Mitigation Measures Construction**

#### 3.2 **Demolition - 2017**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road		0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1011	80.1011	0.0219	0.0000	80.6486
Total	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1011	80.1011	0.0219	0.0000	80.6486

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3.2 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
I Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1010	80.1010	0.0219	0.0000	80.6485
Total	0.0923	0.9618	0.5178	8.7000e- 004		0.0494	0.0494		0.0460	0.0460	0.0000	80.1010	80.1010	0.0219	0.0000	80.6485

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.2 Demolition - 2017

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840
Total	1.7900e- 003	1.4700e- 003	0.0146	3.0000e- 005	2.7200e- 003	2.0000e- 005	2.7400e- 003	7.2000e- 004	2.0000e- 005	7.4000e- 004	0.0000	2.5814	2.5814	1.1000e- 004	0.0000	2.5840

## 3.2 Demolition - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3692	458.3692	0.1263	0.0000	461.5263

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3.2 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258
Total	0.4853	5.0011	2.9107	5.0700e- 003		0.2530	0.2530		0.2355	0.2355	0.0000	458.3686	458.3686	0.1263	0.0000	461.5258

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3.2 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678
Total	9.2300e- 003	7.4200e- 003	0.0736	1.6000e- 004	0.0158	1.2000e- 004	0.0159	4.1900e- 003	1.1000e- 004	4.3000e- 003	0.0000	14.5542	14.5542	5.4000e- 004	0.0000	14.5678

#### 3.2 Demolition - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8736	451.8736	0.1257	0.0000	455.0163

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3.2 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157
Total	0.4585	4.6697	2.8788	5.0600e- 003		0.2342	0.2342		0.2179	0.2179	0.0000	451.8731	451.8731	0.1257	0.0000	455.0157

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3.2 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

#### 3.2 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3818	445.3818	0.1257	0.0000	448.5250

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3.2 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244
Total	0.4339	4.3493	2.8497	5.0800e- 003		0.2173	0.2173		0.2020	0.2020	0.0000	445.3812	445.3812	0.1257	0.0000	448.5244

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

#### 3.2 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7067	290.7067	0.0818	0.0000	292.7523
Total	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7067	290.7067	0.0818	0.0000	292.7523

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3.2 Demolition - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1 .	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7064	290.7064	0.0818	0.0000	292.7519
Total	0.2706	2.6882	1.8438	3.3200e- 003		0.1326	0.1326		0.1232	0.1232	0.0000	290.7064	290.7064	0.0818	0.0000	292.7519

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.2 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468
Total	4.7000e- 003	3.3900e- 003	0.0352	1.0000e- 004	0.0103	7.0000e- 005	0.0104	2.7500e- 003	6.0000e- 005	2.8100e- 003	0.0000	8.6406	8.6406	2.5000e- 004	0.0000	8.6468

## 3.3 Site Preparation - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	i i				9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5042	5.3260	2.4836	4.2000e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	384.0970	384.0970	0.1196	0.0000	387.0863
Total	0.5042	5.3260	2.4836	4.2000e- 003	9.0331	0.2848	9.3179	4.9653	0.2620	5.2273	0.0000	384.0970	384.0970	0.1196	0.0000	387.0863

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3800e- 003	7.5400e- 003	0.0748	1.6000e- 004	0.0160	1.2000e- 004	0.0162	4.2600e- 003	1.1000e- 004	4.3700e- 003	0.0000	14.7884	14.7884	5.5000e- 004	0.0000	14.8022
Total	9.3800e- 003	7.5400e- 003	0.0748	1.6000e- 004	0.0160	1.2000e- 004	0.0162	4.2600e- 003	1.1000e- 004	4.3700e- 003	0.0000	14.7884	14.7884	5.5000e- 004	0.0000	14.8022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5042	5.3260	2.4836	4.2000e- 003		0.2848	0.2848	 	0.2620	0.2620	0.0000	384.0965	384.0965	0.1196	0.0000	387.0859
Total	0.5042	5.3260	2.4836	4.2000e- 003	9.0331	0.2848	9.3179	4.9653	0.2620	5.2273	0.0000	384.0965	384.0965	0.1196	0.0000	387.0859

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3800e- 003	7.5400e- 003	0.0748	1.6000e- 004	0.0160	1.2000e- 004	0.0162	4.2600e- 003	1.1000e- 004	4.3700e- 003	0.0000	14.7884	14.7884	5.5000e- 004	0.0000	14.8022
Total	9.3800e- 003	7.5400e- 003	0.0748	1.6000e- 004	0.0160	1.2000e- 004	0.0162	4.2600e- 003	1.1000e- 004	4.3700e- 003	0.0000	14.7884	14.7884	5.5000e- 004	0.0000	14.8022

## 3.3 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119		0.2870	0.2870	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9014	445.9014	0.1411	0.0000	449.4283

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5657	5.9472	2.8792	4.9600e- 003		0.3119	0.3119		0.2870	0.2870	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278
Total	0.5657	5.9472	2.8792	4.9600e- 003	9.0331	0.3119	9.3451	4.9653	0.2870	5.2523	0.0000	445.9008	445.9008	0.1411	0.0000	449.4278

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	<sup>-</sup> /yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860
Total	0.0101	7.8200e- 003	0.0782	1.9000e- 004	0.0189	1.3000e- 004	0.0191	5.0300e- 003	1.2000e- 004	5.1500e- 003	0.0000	16.8718	16.8718	5.7000e- 004	0.0000	16.8860

## 3.3 Site Preparation - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii		i i i		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003		0.2879	0.2879		0.2648	0.2648	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9419	437.9419	0.1416	0.0000	441.4829

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5340	5.5567	2.8183	4.9800e- 003		0.2879	0.2879		0.2648	0.2648	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824
Total	0.5340	5.5567	2.8183	4.9800e- 003	9.0331	0.2879	9.3210	4.9653	0.2648	5.2302	0.0000	437.9414	437.9414	0.1416	0.0000	441.4824

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	<sup>-</sup> /yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214
Total	9.3000e- 003	6.9700e- 003	0.0706	1.8000e- 004	0.0190	1.3000e- 004	0.0191	5.0500e- 003	1.2000e- 004	5.1700e- 003	0.0000	16.4087	16.4087	5.1000e- 004	0.0000	16.4214

## 3.3 Site Preparation - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			i i i		9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4977	5.1836	2.7078	4.8700e- 003		0.2617	0.2617		0.2408	0.2408	0.0000	427.9772	427.9772	0.1384	0.0000	431.4376
Total	0.4977	5.1836	2.7078	4.8700e- 003	9.0331	0.2617	9.2948	4.9653	0.2408	5.2061	0.0000	427.9772	427.9772	0.1384	0.0000	431.4376

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.3 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	<sup>-</sup> /yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e- 003	6.1000e- 003	0.0633	1.7000e- 004	0.0186	1.2000e- 004	0.0187	4.9300e- 003	1.2000e- 004	5.0500e- 003	0.0000	15.5228	15.5228	4.5000e- 004	0.0000	15.5339
Total	8.4500e- 003	6.1000e- 003	0.0633	1.7000e- 004	0.0186	1.2000e- 004	0.0187	4.9300e- 003	1.2000e- 004	5.0500e- 003	0.0000	15.5228	15.5228	4.5000e- 004	0.0000	15.5339

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4977	5.1836	2.7077	4.8700e- 003		0.2617	0.2617		0.2408	0.2408	0.0000	427.9767	427.9767	0.1384	0.0000	431.4371
Total	0.4977	5.1836	2.7077	4.8700e- 003	9.0331	0.2617	9.2948	4.9653	0.2408	5.2061	0.0000	427.9767	427.9767	0.1384	0.0000	431.4371

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3.3 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4500e- 003	6.1000e- 003	0.0633	1.7000e- 004	0.0186	1.2000e- 004	0.0187	4.9300e- 003	1.2000e- 004	5.0500e- 003	0.0000	15.5228	15.5228	4.5000e- 004	0.0000	15.5339
Total	8.4500e- 003	6.1000e- 003	0.0633	1.7000e- 004	0.0186	1.2000e- 004	0.0187	4.9300e- 003	1.2000e- 004	5.0500e- 003	0.0000	15.5228	15.5228	4.5000e- 004	0.0000	15.5339

# 3.4 Grading - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5625	6.5772	3.8774	6.8500e- 003		0.2910	0.2910		0.2678	0.2678	0.0000	625.9659	625.9659	0.1949	0.0000	630.8377
Total	0.5625	6.5772	3.8774	6.8500e- 003	23.5582	0.2910	23.8493	3.8737	0.2678	4.1415	0.0000	625.9659	625.9659	0.1949	0.0000	630.8377

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	8.3800e- 003	0.0831	1.8000e- 004	0.0178	1.3000e- 004	0.0179	4.7300e- 003	1.2000e- 004	4.8500e- 003	0.0000	16.4316	16.4316	6.1000e- 004	0.0000	16.4469
Total	0.0104	8.3800e- 003	0.0831	1.8000e- 004	0.0178	1.3000e- 004	0.0179	4.7300e- 003	1.2000e- 004	4.8500e- 003	0.0000	16.4316	16.4316	6.1000e- 004	0.0000	16.4469

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr									MT/yr						
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5625	6.5772	3.8774	6.8500e- 003		0.2910	0.2910		0.2678	0.2678	0.0000	625.9652	625.9652	0.1949	0.0000	630.8370
Total	0.5625	6.5772	3.8774	6.8500e- 003	23.5582	0.2910	23.8493	3.8737	0.2678	4.1415	0.0000	625.9652	625.9652	0.1949	0.0000	630.8370

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0104	8.3800e- 003	0.0831	1.8000e- 004	0.0178	1.3000e- 004	0.0179	4.7300e- 003	1.2000e- 004	4.8500e- 003	0.0000	16.4316	16.4316	6.1000e- 004	0.0000	16.4469	
Total	0.0104	8.3800e- 003	0.0831	1.8000e- 004	0.0178	1.3000e- 004	0.0179	4.7300e- 003	1.2000e- 004	4.8500e- 003	0.0000	16.4316	16.4316	6.1000e- 004	0.0000	16.4469	

## 3.4 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr									MT/yr						
Fugitive Dust	ii ii		i i i		23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109		0.2861	0.2861	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9022	726.9022	0.2300	0.0000	732.6518

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6184	7.1149	4.3557	8.0900e- 003		0.3109	0.3109		0.2861	0.2861	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510
Total	0.6184	7.1149	4.3557	8.0900e- 003	23.5582	0.3109	23.8692	3.8737	0.2861	4.1598	0.0000	726.9014	726.9014	0.2300	0.0000	732.6510

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623
Total	0.0112	8.6900e- 003	0.0868	2.1000e- 004	0.0210	1.5000e- 004	0.0212	5.5900e- 003	1.4000e- 004	5.7200e- 003	0.0000	18.7464	18.7464	6.4000e- 004	0.0000	18.7623

### 3.4 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust			 		23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7442	713.7442	0.2308	0.0000	719.5152

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5830	6.5759	4.1865	8.1200e- 003		0.2848	0.2848		0.2620	0.2620	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144
Total	0.5830	6.5759	4.1865	8.1200e- 003	23.5582	0.2848	23.8430	3.8737	0.2620	4.1357	0.0000	713.7434	713.7434	0.2308	0.0000	719.5144

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460
Total	0.0103	7.7400e- 003	0.0785	2.0000e- 004	0.0211	1.5000e- 004	0.0213	5.6100e- 003	1.3000e- 004	5.7400e- 003	0.0000	18.2319	18.2319	5.6000e- 004	0.0000	18.2460

### 3.4 Grading - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	11 11 11				23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5365	5.9392	3.9524	7.9400e- 003		0.2541	0.2541		0.2338	0.2338	0.0000	697.5358	697.5358	0.2256	0.0000	703.1757
Total	0.5365	5.9392	3.9524	7.9400e- 003	23.5582	0.2541	23.8124	3.8737	0.2338	4.1075	0.0000	697.5358	697.5358	0.2256	0.0000	703.1757

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3.4 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3900e- 003	6.7800e- 003	0.0704	1.9000e- 004	0.0206	1.4000e- 004	0.0208	5.4800e- 003	1.3000e- 004	5.6100e- 003	0.0000	17.2475	17.2475	4.9000e- 004	0.0000	17.2599
Total	9.3900e- 003	6.7800e- 003	0.0704	1.9000e- 004	0.0206	1.4000e- 004	0.0208	5.4800e- 003	1.3000e- 004	5.6100e- 003	0.0000	17.2475	17.2475	4.9000e- 004	0.0000	17.2599

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					23.5582	0.0000	23.5582	3.8737	0.0000	3.8737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5365	5.9392	3.9524	7.9400e- 003		0.2541	0.2541		0.2338	0.2338	0.0000	697.5349	697.5349	0.2256	0.0000	703.1749
Total	0.5365	5.9392	3.9524	7.9400e- 003	23.5582	0.2541	23.8124	3.8737	0.2338	4.1075	0.0000	697.5349	697.5349	0.2256	0.0000	703.1749

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3900e- 003	6.7800e- 003	0.0704	1.9000e- 004	0.0206	1.4000e- 004	0.0208	5.4800e- 003	1.3000e- 004	5.6100e- 003	0.0000	17.2475	17.2475	4.9000e- 004	0.0000	17.2599
Total	9.3900e- 003	6.7800e- 003	0.0704	1.9000e- 004	0.0206	1.4000e- 004	0.0208	5.4800e- 003	1.3000e- 004	5.6100e- 003	0.0000	17.2475	17.2475	4.9000e- 004	0.0000	17.2599

# 3.5 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.1514	1.3215	0.9933	1.5200e- 003		0.0847	0.0847		0.0797	0.0797	0.0000	134.3385	134.3385	0.0329	0.0000	135.1613
Total	0.1514	1.3215	0.9933	1.5200e- 003		0.0847	0.0847		0.0797	0.0797	0.0000	134.3385	134.3385	0.0329	0.0000	135.1613

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# 3.5 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3842	11.5956	2.6313	0.0257	0.6067	0.0821	0.6887	0.1751	0.0785	0.2536	0.0000	2,459.280 0	2,459.280 0	0.1739	0.0000	2,463.628 4
Worker	0.9598	0.7712	7.6523	0.0168	1.6395	0.0120	1.6515	0.4355	0.0110	0.4466	0.0000	1,512.719 4	1,512.719 4	0.0565	0.0000	1,514.131 0
Total	1.3441	12.3667	10.2836	0.0425	2.2462	0.0941	2.3402	0.6106	0.0896	0.7001	0.0000	3,971.999 4	3,971.999 4	0.2304	0.0000	3,977.759 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1514	1.3215	0.9933	1.5200e- 003		0.0847	0.0847	 	0.0797	0.0797	0.0000	134.3383	134.3383	0.0329	0.0000	135.1612
Total	0.1514	1.3215	0.9933	1.5200e- 003		0.0847	0.0847		0.0797	0.0797	0.0000	134.3383	134.3383	0.0329	0.0000	135.1612

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# 3.5 Building Construction - 2018 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3842	11.5956	2.6313	0.0257	0.6067	0.0821	0.6887	0.1751	0.0785	0.2536	0.0000	2,459.280 0	2,459.280 0	0.1739	0.0000	2,463.628 4
Worker	0.9598	0.7712	7.6523	0.0168	1.6395	0.0120	1.6515	0.4355	0.0110	0.4466	0.0000	1,512.719 4	1,512.719 4	0.0565	0.0000	1,514.131 0
Total	1.3441	12.3667	10.2836	0.0425	2.2462	0.0941	2.3402	0.6106	0.0896	0.7001	0.0000	3,971.999 4	3,971.999 4	0.2304	0.0000	3,977.759 4

# 3.5 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683	1 1	0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

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# 3.5 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7905	25.0860	5.4333	0.0588	1.4012	0.1604	1.5616	0.4044	0.1535	0.5578	0.0000	5,622.622 8	5,622.622 8	0.3926	0.0000	5,632.436 7
Worker	2.0130	1.5647	15.6355	0.0374	3.7868	0.0268	3.8136	1.0059	0.0247	1.0306	0.0000	3,375.286 6	3,375.286 6	0.1144	0.0000	3,378.146 2
Total	2.8035	26.6508	21.0688	0.0962	5.1880	0.1872	5.3752	1.4103	0.1782	1.5884	0.0000	8,997.909 3	8,997.909 3	0.5070	0.0000	9,010.582 9

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
0	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e- 003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

# 3.5 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7905	25.0860	5.4333	0.0588	1.4012	0.1604	1.5616	0.4044	0.1535	0.5578	0.0000	5,622.622 8	5,622.622 8	0.3926	0.0000	5,632.436 7
Worker	2.0130	1.5647	15.6355	0.0374	3.7868	0.0268	3.8136	1.0059	0.0247	1.0306	0.0000	3,375.286 6	3,375.286 6	0.1144	0.0000	3,378.146 2
Total	2.8035	26.6508	21.0688	0.0962	5.1880	0.1872	5.3752	1.4103	0.1782	1.5884	0.0000	8,997.909 3	8,997.909 3	0.5070	0.0000	9,010.582 9

# 3.5 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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3.5 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6718	22.9704	4.8076	0.0586	1.4065	0.1086	1.5151	0.4059	0.1039	0.5098	0.0000	5,605.075 7	5,605.075 7	0.3762	0.0000	5,614.480 3
Worker	1.8596	1.3938	14.1246	0.0364	3.8013	0.0262	3.8276	1.0098	0.0241	1.0339	0.0000	3,282.660 0	3,282.660 0	0.1011	0.0000	3,285.188 1
Total	2.5314	24.3642	18.9321	0.0950	5.2079	0.1348	5.3427	1.4157	0.1280	1.5437	0.0000	8,887.735 7	8,887.735 7	0.4773	0.0000	8,899.668 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e- 003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

# 3.5 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6718	22.9704	4.8076	0.0586	1.4065	0.1086	1.5151	0.4059	0.1039	0.5098	0.0000	5,605.075 7	5,605.075 7	0.3762	0.0000	5,614.480 3
Worker	1.8596	1.3938	14.1246	0.0364	3.8013	0.0262	3.8276	1.0098	0.0241	1.0339	0.0000	3,282.660 0	3,282.660 0	0.1011	0.0000	3,285.188 1
Total	2.5314	24.3642	18.9321	0.0950	5.2079	0.1348	5.3427	1.4157	0.1280	1.5437	0.0000	8,887.735 7	8,887.735 7	0.4773	0.0000	8,899.668 5

# 3.5 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.2481	2.2749	2.1631	3.5100e- 003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	0.2481	2.2749	2.1631	3.5100e- 003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

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# 3.5 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5705	20.8059	4.2416	0.0580	1.4011	0.0370	1.4381	0.4043	0.0354	0.4397	0.0000	5,554.376 9	5,554.376 9	0.3629	0.0000	5,563.449 1
Worker	1.7240	1.2438	12.9132	0.0351	3.7868	0.0255	3.8123	1.0059	0.0235	1.0294	0.0000	3,166.064 7	3,166.064 7	0.0908	0.0000	3,168.335 7
Total	2.2944	22.0497	17.1548	0.0931	5.1880	0.0625	5.2504	1.4102	0.0588	1.4691	0.0000	8,720.441 6	8,720.441 6	0.4537	0.0000	8,731.784 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2481	2.2749	2.1631	3.5100e- 003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.2481	2.2749	2.1631	3.5100e- 003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

# 3.5 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5705	20.8059	4.2416	0.0580	1.4011	0.0370	1.4381	0.4043	0.0354	0.4397	0.0000	5,554.376 9	5,554.376 9	0.3629	0.0000	5,563.449 1
Worker	1.7240	1.2438	12.9132	0.0351	3.7868	0.0255	3.8123	1.0059	0.0235	1.0294	0.0000	3,166.064 7	3,166.064 7	0.0908	0.0000	3,168.335 7
Total	2.2944	22.0497	17.1548	0.0931	5.1880	0.0625	5.2504	1.4102	0.0588	1.4691	0.0000	8,720.441 6	8,720.441 6	0.4537	0.0000	8,731.784 8

# 3.5 Building Construction - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0879	0.8042	0.8427	1.3900e- 003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
Total	0.0879	0.8042	0.8427	1.3900e- 003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533

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# 3.5 Building Construction - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2099	7.7672	1.5504	0.0227	0.5529	0.0123	0.5652	0.1596	0.0117	0.1713	0.0000	2,174.061 7	2,174.061 7	0.1383	0.0000	2,177.520 1
Worker	0.6353	0.4409	4.6696	0.0133	1.4944	9.7700e- 003	1.5042	0.3970	8.9900e- 003	0.4060	0.0000	1,204.450 3	1,204.450 3	0.0321	0.0000	1,205.253 8
Total	0.8452	8.2082	6.2200	0.0360	2.0474	0.0220	2.0694	0.5565	0.0207	0.5773	0.0000	3,378.512 0	3,378.512 0	0.1705	0.0000	3,382.774 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0879	0.8042	0.8427	1.3900e- 003		0.0417	0.0417	1 1	0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
Total	0.0879	0.8042	0.8427	1.3900e- 003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531

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3.5 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2099	7.7672	1.5504	0.0227	0.5529	0.0123	0.5652	0.1596	0.0117	0.1713	0.0000	2,174.061 7	2,174.061 7	0.1383	0.0000	2,177.520 1
Worker	0.6353	0.4409	4.6696	0.0133	1.4944	9.7700e- 003	1.5042	0.3970	8.9900e- 003	0.4060	0.0000	1,204.450 3	1,204.450 3	0.0321	0.0000	1,205.253 8
Total	0.8452	8.2082	6.2200	0.0360	2.0474	0.0220	2.0694	0.5565	0.0207	0.5773	0.0000	3,378.512 0	3,378.512 0	0.1705	0.0000	3,382.774 0

# 3.6 Paving - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0666	0.7096	0.5993	9.2000e- 004		0.0387	0.0387		0.0356	0.0356	0.0000	84.2871	84.2871	0.0262	0.0000	84.9431
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0666	0.7096	0.5993	9.2000e- 004		0.0387	0.0387		0.0356	0.0356	0.0000	84.2871	84.2871	0.0262	0.0000	84.9431

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3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8700e- 003	2.3000e- 003	0.0229	5.0000e- 005	4.9000e- 003	4.0000e- 005	4.9300e- 003	1.3000e- 003	3.0000e- 005	1.3300e- 003	0.0000	4.5168	4.5168	1.7000e- 004	0.0000	4.5210
Total	2.8700e- 003	2.3000e- 003	0.0229	5.0000e- 005	4.9000e- 003	4.0000e- 005	4.9300e- 003	1.3000e- 003	3.0000e- 005	1.3300e- 003	0.0000	4.5168	4.5168	1.7000e- 004	0.0000	4.5210

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0666	0.7096	0.5993	9.2000e- 004		0.0387	0.0387		0.0356	0.0356	0.0000	84.2870	84.2870	0.0262	0.0000	84.9430
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0666	0.7096	0.5993	9.2000e- 004		0.0387	0.0387		0.0356	0.0356	0.0000	84.2870	84.2870	0.0262	0.0000	84.9430

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3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2.8700e- 003	2.3000e- 003	0.0229	5.0000e- 005	4.9000e- 003	4.0000e- 005	4.9300e- 003	1.3000e- 003	3.0000e- 005	1.3300e- 003	0.0000	4.5168	4.5168	1.7000e- 004	0.0000	4.5210
Total	2.8700e- 003	2.3000e- 003	0.0229	5.0000e- 005	4.9000e- 003	4.0000e- 005	4.9300e- 003	1.3000e- 003	3.0000e- 005	1.3300e- 003	0.0000	4.5168	4.5168	1.7000e- 004	0.0000	4.5210

# 3.6 Paving - 2019 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146
Paving	0.0000				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2011	267.2011	0.0845	0.0000	269.3146

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3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143
Paving	0.0000		 		 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1898	1.9894	1.9138	2.9800e- 003		0.1076	0.1076		0.0990	0.0990	0.0000	267.2008	267.2008	0.0845	0.0000	269.3143

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3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717
Total	8.3900e- 003	6.5200e- 003	0.0651	1.6000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	14.0598	14.0598	4.8000e- 004	0.0000	14.0717

# 3.6 Paving - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911
Paving	0.0000	 			 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3697	262.3697	0.0849	0.0000	264.4911

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3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908
Paving	0.0000				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1777	1.8426	1.9194	2.9900e- 003		0.0986	0.0986		0.0907	0.0907	0.0000	262.3694	262.3694	0.0849	0.0000	264.4908

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845
Total	7.7500e- 003	5.8100e- 003	0.0588	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.2100e- 003	1.0000e- 004	4.3100e- 003	0.0000	13.6740	13.6740	4.2000e- 004	0.0000	13.6845

# 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1639	1.6859	1.9123	2.9700e- 003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3064	261.3064	0.0845	0.0000	263.4192
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1639	1.6859	1.9123	2.9700e- 003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3064	261.3064	0.0845	0.0000	263.4192

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Annual

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1800e- 003	5.1800e- 003	0.0538	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	13.1883	13.1883	3.8000e- 004	0.0000	13.1977
Total	7.1800e- 003	5.1800e- 003	0.0538	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	13.1883	13.1883	3.8000e- 004	0.0000	13.1977

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1639	1.6859	1.9122	2.9700e- 003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3061	261.3061	0.0845	0.0000	263.4189
Paving	0.0000	 	 		 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1639	1.6859	1.9122	2.9700e- 003		0.0884	0.0884		0.0814	0.0814	0.0000	261.3061	261.3061	0.0845	0.0000	263.4189

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3.6 Paving - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1800e- 003	5.1800e- 003	0.0538	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	13.1883	13.1883	3.8000e- 004	0.0000	13.1977
Total	7.1800e- 003	5.1800e- 003	0.0538	1.5000e- 004	0.0158	1.1000e- 004	0.0159	4.1900e- 003	1.0000e- 004	4.2900e- 003	0.0000	13.1883	13.1883	3.8000e- 004	0.0000	13.1977

# 3.6 Paving - 2022

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0744	0.7509	0.9842	1.5400e- 003		0.0383	0.0383		0.0353	0.0353	0.0000	135.1860	135.1860	0.0437	0.0000	136.2791
Paving	0.0000	 	1 1 1			0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0744	0.7509	0.9842	1.5400e- 003		0.0383	0.0383		0.0353	0.0353	0.0000	135.1860	135.1860	0.0437	0.0000	136.2791

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3.6 Paving - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4700e- 003	2.4100e- 003	0.0255	7.0000e- 005	8.1600e- 003	5.0000e- 005	8.2100e- 003	2.1700e- 003	5.0000e- 005	2.2200e- 003	0.0000	6.5759	6.5759	1.8000e- 004	0.0000	6.5803
Total	3.4700e- 003	2.4100e- 003	0.0255	7.0000e- 005	8.1600e- 003	5.0000e- 005	8.2100e- 003	2.1700e- 003	5.0000e- 005	2.2200e- 003	0.0000	6.5759	6.5759	1.8000e- 004	0.0000	6.5803

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0744	0.7509	0.9842	1.5400e- 003		0.0383	0.0383		0.0353	0.0353	0.0000	135.1859	135.1859	0.0437	0.0000	136.2789
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0744	0.7509	0.9842	1.5400e- 003		0.0383	0.0383		0.0353	0.0353	0.0000	135.1859	135.1859	0.0437	0.0000	136.2789

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4700e- 003	2.4100e- 003	0.0255	7.0000e- 005	8.1600e- 003	5.0000e- 005	8.2100e- 003	2.1700e- 003	5.0000e- 005	2.2200e- 003	0.0000	6.5759	6.5759	1.8000e- 004	0.0000	6.5803
Total	3.4700e- 003	2.4100e- 003	0.0255	7.0000e- 005	8.1600e- 003	5.0000e- 005	8.2100e- 003	2.1700e- 003	5.0000e- 005	2.2200e- 003	0.0000	6.5759	6.5759	1.8000e- 004	0.0000	6.5803

# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	4.5669		i i i			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5200e- 003	0.0371	0.0343	5.0000e- 005		2.7900e- 003	2.7900e- 003		2.7900e- 003	2.7900e- 003	0.0000	4.7235	4.7235	4.5000e- 004	0.0000	4.7348
Total	4.5724	0.0371	0.0343	5.0000e- 005	-	2.7900e- 003	2.7900e- 003		2.7900e- 003	2.7900e- 003	0.0000	4.7235	4.7235	4.5000e- 004	0.0000	4.7348

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# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0628	0.0505	0.5010	1.1000e- 003	0.1073	7.8000e- 004	0.1081	0.0285	7.2000e- 004	0.0292	0.0000	99.0355	99.0355	3.7000e- 003	0.0000	99.1280
Total	0.0628	0.0505	0.5010	1.1000e- 003	0.1073	7.8000e- 004	0.1081	0.0285	7.2000e- 004	0.0292	0.0000	99.0355	99.0355	3.7000e- 003	0.0000	99.1280

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	4.5669					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5200e- 003	0.0371	0.0343	5.0000e- 005		2.7900e- 003	2.7900e- 003	i i	2.7900e- 003	2.7900e- 003	0.0000	4.7235	4.7235	4.5000e- 004	0.0000	4.7347
Total	4.5724	0.0371	0.0343	5.0000e- 005		2.7900e- 003	2.7900e- 003		2.7900e- 003	2.7900e- 003	0.0000	4.7235	4.7235	4.5000e- 004	0.0000	4.7347

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# 3.7 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0628	0.0505	0.5010	1.1000e- 003	0.1073	7.8000e- 004	0.1081	0.0285	7.2000e- 004	0.0292	0.0000	99.0355	99.0355	3.7000e- 003	0.0000	99.1280
Total	0.0628	0.0505	0.5010	1.1000e- 003	0.1073	7.8000e- 004	0.1081	0.0285	7.2000e- 004	0.0292	0.0000	99.0355	99.0355	3.7000e- 003	0.0000	99.1280

# 3.7 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.2153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004		0.0168	0.0168	       	0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903
Total	32.2500	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e- 003	0.0000	33.3903

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# 3.7 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4025	0.3129	3.1262	7.4800e- 003	0.7572	5.3600e- 003	0.7625	0.2011	4.9400e- 003	0.2061	0.0000	674.8699	674.8699	0.0229	0.0000	675.4416
Total	0.4025	0.3129	3.1262	7.4800e- 003	0.7572	5.3600e- 003	0.7625	0.2011	4.9400e- 003	0.2061	0.0000	674.8699	674.8699	0.0229	0.0000	675.4416

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.2153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e- 004	   	0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903
Total	32.2500	0.2395	0.2403	3.9000e- 004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e- 003	0.0000	33.3903

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# 3.7 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4025	0.3129	3.1262	7.4800e- 003	0.7572	5.3600e- 003	0.7625	0.2011	4.9400e- 003	0.2061	0.0000	674.8699	674.8699	0.0229	0.0000	675.4416
Total	0.4025	0.3129	3.1262	7.4800e- 003	0.7572	5.3600e- 003	0.7625	0.2011	4.9400e- 003	0.2061	0.0000	674.8699	674.8699	0.0229	0.0000	675.4416

### 3.7 Architectural Coating - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.3387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124
Total	32.3704	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5124

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# 3.7 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3718	0.2787	2.8241	7.2700e- 003	0.7601	5.2400e- 003	0.7653	0.2019	4.8300e- 003	0.2067	0.0000	656.3497	656.3497	0.0202	0.0000	656.8552
Total	0.3718	0.2787	2.8241	7.2700e- 003	0.7601	5.2400e- 003	0.7653	0.2019	4.8300e- 003	0.2067	0.0000	656.3497	656.3497	0.0202	0.0000	656.8552

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.3387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e- 004		0.0145	0.0145	       	0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123
Total	32.3704	0.2206	0.2399	3.9000e- 004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e- 003	0.0000	33.5123

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# 3.7 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3718	0.2787	2.8241	7.2700e- 003	0.7601	5.2400e- 003	0.7653	0.2019	4.8300e- 003	0.2067	0.0000	656.3497	656.3497	0.0202	0.0000	656.8552
Total	0.3718	0.2787	2.8241	7.2700e- 003	0.7601	5.2400e- 003	0.7653	0.2019	4.8300e- 003	0.2067	0.0000	656.3497	656.3497	0.0202	0.0000	656.8552

### 3.7 Architectural Coating - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.2153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0286	0.1993	0.2372	3.9000e- 004		0.0123	0.0123	 	0.0123	0.0123	0.0000	33.3200	33.3200	2.2900e- 003	0.0000	33.3771
Total	32.2438	0.1993	0.2372	3.9000e- 004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3200	33.3200	2.2900e- 003	0.0000	33.3771

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# 3.7 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3447	0.2487	2.5819	7.0100e- 003	0.7572	5.1000e- 003	0.7623	0.2011	4.6900e- 003	0.2058	0.0000	633.0371	633.0371	0.0182	0.0000	633.4912
Total	0.3447	0.2487	2.5819	7.0100e- 003	0.7572	5.1000e- 003	0.7623	0.2011	4.6900e- 003	0.2058	0.0000	633.0371	633.0371	0.0182	0.0000	633.4912

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	32.2153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0286	0.1993	0.2372	3.9000e- 004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3199	33.3199	2.2900e- 003	0.0000	33.3771
Total	32.2438	0.1993	0.2372	3.9000e- 004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3199	33.3199	2.2900e- 003	0.0000	33.3771

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# 3.7 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3447	0.2487	2.5819	7.0100e- 003	0.7572	5.1000e- 003	0.7623	0.2011	4.6900e- 003	0.2058	0.0000	633.0371	633.0371	0.0182	0.0000	633.4912
Total	0.3447	0.2487	2.5819	7.0100e- 003	0.7572	5.1000e- 003	0.7623	0.2011	4.6900e- 003	0.2058	0.0000	633.0371	633.0371	0.0182	0.0000	633.4912

### 3.7 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	22.0940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1261	0.1623	2.7000e- 004		7.3100e- 003	7.3100e- 003		7.3100e- 003	7.3100e- 003	0.0000	22.8516	22.8516	1.4900e- 003	0.0000	22.8888
Total	22.1123	0.1261	0.1623	2.7000e- 004		7.3100e- 003	7.3100e- 003		7.3100e- 003	7.3100e- 003	0.0000	22.8516	22.8516	1.4900e- 003	0.0000	22.8888

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# 3.7 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2207	0.1532	1.6226	4.6300e- 003	0.5193	3.3900e- 003	0.5227	0.1379	3.1200e- 003	0.1411	0.0000	418.5179	418.5179	0.0112	0.0000	418.7971
Total	0.2207	0.1532	1.6226	4.6300e- 003	0.5193	3.3900e- 003	0.5227	0.1379	3.1200e- 003	0.1411	0.0000	418.5179	418.5179	0.0112	0.0000	418.7971

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	22.0940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1261	0.1623	2.7000e- 004		7.3100e- 003	7.3100e- 003		7.3100e- 003	7.3100e- 003	0.0000	22.8516	22.8516	1.4900e- 003	0.0000	22.8888
Total	22.1123	0.1261	0.1623	2.7000e- 004		7.3100e- 003	7.3100e- 003		7.3100e- 003	7.3100e- 003	0.0000	22.8516	22.8516	1.4900e- 003	0.0000	22.8888

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# 3.7 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2207	0.1532	1.6226	4.6300e- 003	0.5193	3.3900e- 003	0.5227	0.1379	3.1200e- 003	0.1411	0.0000	418.5179	418.5179	0.0112	0.0000	418.7971
Total	0.2207	0.1532	1.6226	4.6300e- 003	0.5193	3.3900e- 003	0.5227	0.1379	3.1200e- 003	0.1411	0.0000	418.5179	418.5179	0.0112	0.0000	418.7971

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	51.6827	364.7306	717.1418	3.4028	292.4248	2.0668	294.4916	78.3535	1.9251	80.2786	0.0000	315,918.2 718	315,918.2 718	13.3988	0.0000	316,253.2 407
Unmitigated	51.6827	364.7306	717.1418	3.4028	292.4248	2.0668	294.4916	78.3535	1.9251	80.2786	0.0000	315,918.2 718	315,918.2 718	13.3988	0.0000	316,253.2 407

# **4.2 Trip Summary Information**

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.93	4,595.18	1961.36	33,294,784	33,294,784
Industrial Park	19,170.40	9,623.85	2821.45	471,646,004	471,646,004
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	4,529.10	4,608.15	4008.30	12,683,956	12,683,956
Total	184,931.96	208,168.51	104,427.99	768,139,652	768,139,652

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

### 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

# **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	34,922.66 97	34,922.66 97	1.4418	0.2983	35,047.60 65
Electricity Unmitigated	n		,			0.0000	0.0000	,	0.0000	0.0000	0.0000	34,922.66 97	34,922.66 97	1.4418	0.2983	35,047.60 65
NaturalGas Mitigated	0.2465	2.1905	1.5103	0.0135		0.1703	0.1703	,	0.1703	0.1703	0.0000	2,439.872 9	2,439.872 9	0.0468	0.0447	2,454.371 8
NaturalGas Unmitigated	0.2465	2.1905	1.5103	0.0135		0.1703	0.1703		0.1703	0.1703	0.0000	2,439.872 9	2,439.872 9	0.0468	0.0447	2,454.371 8

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# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Office Building	6.51917e +006	0.0352	0.3196	0.2684	1.9200e- 003		0.0243	0.0243	)   	0.0243	0.0243	0.0000	347.8877	347.8877	6.6700e- 003	6.3800e- 003	349.9551
Industrial Park	1.34889e +007	0.0727	0.6612	0.5554	3.9700e- 003		0.0503	0.0503	,	0.0503	0.0503	0.0000	719.8164	719.8164	0.0138	0.0132	724.0939
Regional Shopping Center	8.4497e +006	0.0456	0.4142	0.3479	2.4900e- 003		0.0315	0.0315	,       	0.0315	0.0315	0.0000	450.9079	450.9079	8.6400e- 003	8.2700e- 003	453.5874
Single Family Housing	1.72638e +007	0.0931	0.7955	0.3385	5.0800e- 003		0.0643	0.0643	,	0.0643	0.0643	0.0000	921.2608	921.2608	0.0177	0.0169	926.7354
Total		0.2465	2.1905	1.5103	0.0135		0.1703	0.1703		0.1703	0.1703	0.0000	2,439.872 9	2,439.872 9	0.0468	0.0447	2,454.371 8

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# 5.2 Energy by Land Use - NaturalGas

# **Mitigated**

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Office Building	6.51917e +006	0.0352	0.3196	0.2684	1.9200e- 003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8877	347.8877	6.6700e- 003	6.3800e- 003	349.9551
Industrial Park	1.34889e +007	0.0727	0.6612	0.5554	3.9700e- 003		0.0503	0.0503		0.0503	0.0503	0.0000	719.8164	719.8164	0.0138	0.0132	724.0939
Regional Shopping Center	8.4497e +006	0.0456	0.4142	0.3479	2.4900e- 003		0.0315	0.0315		0.0315	0.0315	0.0000	450.9079	450.9079	8.6400e- 003	8.2700e- 003	453.5874
Single Family Housing	1.72638e +007	0.0931	0.7955	0.3385	5.0800e- 003		0.0643	0.0643		0.0643	0.0643	0.0000	921.2608	921.2608	0.0177	0.0169	926.7354
Total		0.2465	2.1905	1.5103	0.0135		0.1703	0.1703		0.1703	0.1703	0.0000	2,439.872 9	2,439.872 9	0.0468	0.0447	2,454.371 8

# 5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
General Office Building	1.82313e +007	5,808.870 1	0.2398	0.0496	5,829.651 5
Industrial Park	3.77224e +007	12,019.16 48	0.4962	0.1027	12,062.16 37
Regional Shopping Center	4.92962e +007	15,706.82 67	0.6485	0.1342	15,763.01 84
Single Family Housing	4.35566e +006	1,387.808 0	0.0573	0.0119	1,392.772 9
Total		34,922.66 97	1.4418	0.2983	35,047.60 66

# 5.3 Energy by Land Use - Electricity <u>Mitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
General Office Building	1.82313e +007	5,808.870 1	0.2398	0.0496	5,829.651 5
Industrial Park	3.77224e +007	12,019.16 48	0.4962	0.1027	12,062.16 37
Regional Shopping Center	4.92962e +007	15,706.82 67	0.6485	0.1342	15,763.01 84
Single Family Housing	4.35566e +006	1,387.808 0	0.0573	0.0119	1,392.772 9
Total		34,922.66 97	1.4418	0.2983	35,047.60 66

### 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692	i i i	5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632
Unmitigated	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692	i i	5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632

# 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	12.3430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	40.4573					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.1770	0.5698	36.0158	0.0653		5.0498	5.0498		5.0498	5.0498	480.3253	201.4414	681.7668	0.4433	0.0378	704.1071
Landscaping	0.1116	0.0405	3.5367	1.9000e- 004		0.0195	0.0195		0.0195	0.0195	0.0000	5.8100	5.8100	5.8400e- 003	0.0000	5.9561
Total	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692		5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632

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# 6.2 Area by SubCategory

# **Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	7/yr		
Architectural Coating	12.3430			1		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	40.4573		       	   		0.0000	0.0000	       	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.1770	0.5698	36.0158	0.0653		5.0498	5.0498		5.0498	5.0498	480.3253	201.4414	681.7668	0.4433	0.0378	704.1071
Landscaping	0.1116	0.0405	3.5367	1.9000e- 004		0.0195	0.0195	       	0.0195	0.0195	0.0000	5.8100	5.8100	5.8400e- 003	0.0000	5.9561
Total	82.0889	0.6103	39.5525	0.0654		5.0692	5.0692		5.0692	5.0692	480.3253	207.2515	687.5768	0.4491	0.0378	710.0632

# 7.0 Water Detail

# 7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e	
Category	MT/yr				
Ĭ	8,260.001 6	50.3958	1.2488	9,892.027 9	
	8,260.001 6	50.3958	1.2488	9,892.027 9	

# 7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	332 / 203.484	2,203.026 0	10.9048	0.2734	2,557.107 3
Industrial Park	893.781 / 0	3,991.648 0	29.2770	0.7194	4,937.938 7
Regional Shopping Center		1,862.410 2	9.2188	0.2311	2,161.746 1
Single Family Housing	30.2966 / 19.1	202.9174	0.9952	0.0250	235.2358
Total		8,260.001 6	50.3958	1.2488	9,892.027 9

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# 7.2 Water by Land Use

### **Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	332 / 203.484	2,203.026 0	10.9048	0.2734	2,557.107 3
Industrial Park	893.781 / 0	3,991.648 0	29.2770	0.7194	4,937.938 7
Regional Shopping Center	,	1,862.410 2	9.2188	0.2311	2,161.746 1
Single Family Housing	30.2966 / 19.1	202.9174	0.9952	0.0250	235.2358
Total		8,260.001 6	50.3958	1.2488	9,892.027 9

### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

# Category/Year

	Total CO2	CH4	N2O	CO2e	
	MT/yr				
	2,243.793 1	132.6044	0.0000	5,558.902 4	
ĭ	2,243.793 1	132.6044	0.0000	5,558.902 4	

# 8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1737.2	352.6359	20.8402	0.0000	873.6405
Industrial Park	4792.6	972.8545	57.4941	0.0000	2,410.205 8
Regional Shopping Center	3978.56	807.6117	47.7285	0.0000	2,000.823 9
Single Family Housing	545.3	110.6910	6.5417	0.0000	274.2322
Total		2,243.793 1	132.6044	0.0000	5,558.902 4

# 8.2 Waste by Land Use

### **Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e	
Land Use	tons	MT/yr				
General Office Building	1737.2	352.6359	20.8402	0.0000	873.6405	
Industrial Park	4792.6	972.8545	57.4941	0.0000	2,410.205 8	
Regional Shopping Center	3978.56	807.6117	47.7285	0.0000	2,000.823 9	
Single Family Housing	545.3	110.6910	6.5417	0.0000	274.2322	
Total		2,243.793 1	132.6044	0.0000	5,558.902 4	

# 9.0 Operational Offroad

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

# **10.0 Stationary Equipment**

### **Fire Pumps and Emergency Generators**

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

#### **Boilers**

Equipment Type	Number Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### **User Defined Equipment**

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Equipment Type	Number
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# 11.0 Vegetation

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AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# **AV Annexation 2017 plus SB County**

#### San Bernardino-Mojave Desert County, Summer

### 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	465.00	Dwelling Unit	1,600.00	837,000.00	1330
General Office Building	1,867.96	1000sqft	209.00	1,867,957.00	0
Regional Shopping Center	3,789.10	1000sqft	557.00	3,789,101.00	0
Industrial Park	3,865.00	1000sqft	408.00	3,865,000.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edisc	n			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Buildout of 2017 Annexation (Golden Triangle Area) plus remaining county land within 2008 Annexation area.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project specific Traffic Study.

Construction Phase - GP buildout is 2025.

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	1/6/2817	9/8/2022
tblConstructionPhase	PhaseEndDate	9/9/2732	5/25/2022
tblConstructionPhase	PhaseEndDate	2/25/2056	8/27/2021
tblConstructionPhase	PhaseEndDate	7/25/2138	12/24/2021
tblConstructionPhase	PhaseEndDate	11/8/2774	7/8/2022
tblConstructionPhase	PhaseEndDate	2/24/2079	12/24/2021
tblConstructionPhase	PhaseStartDate	11/9/2774	11/9/2018
tblConstructionPhase	PhaseStartDate	7/26/2138	7/26/2018
tblConstructionPhase	PhaseStartDate	2/25/2079	2/25/2018
tblConstructionPhase	PhaseStartDate	9/10/2732	9/10/2018
tblConstructionPhase	PhaseStartDate	2/26/2056	2/26/2018
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LandUseSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LotAcreage	150.97	1,600.00
tblLandUse	LotAcreage	42.88	209.00
tblLandUse	LotAcreage	86.99	557.00

tblLandUse	LotAcreage	88.73	408.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00
tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# 2.0 Emissions Summary

# 2.1 Overall Construction (Maximum Daily Emission)

### **Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2017	4.1922	42.8064	23.7461	0.0402	0.1232	2.1944	2.3176	0.0327	2.0434	2.0760	0.0000	4,062.140 0	4,062.140 0	1.0787	0.0000	4,089.107 1
2018	294.8353	405.7783	345.5574	1.0487	112.1448	11.4596	123.6044	30.3819	10.6597	41.0416	0.0000	107,093.6 988	107,093.6 988	10.3044	0.0000	107,351.3 082
2019	290.6468	376.5701	316.4989	1.0301	112.1446	10.2843	122.4289	30.3819	9.5614	39.9432	0.0000	104,985.3 539	104,985.3 539	10.0278	0.0000	105,236.0 498
2020	286.9179	345.6331	292.7888	1.0148	112.1444	9.0793	121.2238	30.3818	8.4308	38.8126	0.0000	103,104.7 918	103,104.7 918	9.7145	0.0000	103,347.6 540
2021	283.8657	318.6105	274.7936	1.0004	112.1442	7.8297	119.9740	30.3817	7.2544	37.6362	0.0000	101,686.7 246	101,686.7 246	9.4927	0.0000	101,924.0 428
2022	270.5474	187.0484	185.8024	0.8406	46.5259	1.9224	48.4484	12.5880	1.8007	14.3888	0.0000	86,168.93 88	86,168.93 88	5.0798	0.0000	86,295.93 33
Maximum	294.8353	405.7783	345.5574	1.0487	112.1448	11.4596	123.6044	30.3819	10.6597	41.0416	0.0000	107,093.6 988	107,093.6 988	10.3044	0.0000	107,351.3 082

# 2.1 Overall Construction (Maximum Daily Emission)

# **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb/	day		
2017	4.1922	42.8064	23.7461	0.0402	0.1232	2.1944	2.3176	0.0327	2.0434	2.0760	0.0000	4,062.140 0	4,062.140 0	1.0787	0.0000	4,089.107 1
2018	294.8353	405.7783	345.5574	1.0487	112.1448	11.4596	123.6044	30.3819	10.6597	41.0416	0.0000	107,093.6 988	107,093.6 988	10.3044	0.0000	107,351.3 082
2019	290.6468	376.5701	316.4989	1.0301	112.1446	10.2843	122.4289	30.3819	9.5614	39.9432	0.0000	104,985.3 539	104,985.3 539	10.0278	0.0000	105,236.0 497
2020	286.9179	345.6331	292.7888	1.0148	112.1444	9.0793	121.2238	30.3818	8.4308	38.8126	0.0000	103,104.7 918	103,104.7 918	9.7145	0.0000	103,347.6 540
2021	283.8657	318.6104	274.7936	1.0004	112.1442	7.8297	119.9740	30.3817	7.2544	37.6362	0.0000	101,686.7 246	101,686.7 246	9.4927	0.0000	101,924.0 428
2022	270.5474	187.0484	185.8024	0.8406	46.5259	1.9224	48.4484	12.5880	1.8007	14.3888	0.0000	86,168.93 88	86,168.93 88	5.0798	0.0000	86,295.93 33
Maximum	294.8353	405.7783	345.5574	1.0487	112.1448	11.4596	123.6044	30.3819	10.6597	41.0416	0.0000	107,093.6 988	107,093.6 988	10.3044	0.0000	107,351.3 082
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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# 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day				lb/d	day					
Area	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Energy	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
Mobile	427.0656	2,523.857 7	5,617.189 3	25.2186	2,073.891 0	14.4159	2,088.306 9	554.8157	13.4264	568.2421		2,577,626. 6977	2,577,626. 6977	104.7033		2,580,244. 2793
Total	1,430.606 9	2,550.207 9	6,543.195 8	26.8859	2,073.891 0	138.7303	2,212.621 2	554.8157	137.7408	692.5565	12,913.85 48	2,597,850. 7243	2,610,764. 5791	116.9746	1.2860	2,614,072. 1581

# **Mitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day				lb/d	day					
Area	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Energy	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
Mobile	427.0656	2,523.857 7	5,617.189 3	25.2186	2,073.891 0	14.4159	2,088.306 9	554.8157	13.4264	568.2421		2,577,626. 6977	2,577,626. 6977	104.7033		2,580,244. 2793
Total	1,430.606 9	2,550.207 9	6,543.195 8	26.8859	2,073.891 0	138.7303	2,212.621 2	554.8157	137.7408	692.5565	12,913.85 48	2,597,850. 7243	2,610,764. 5791	116.9746	1.2860	2,614,072. 1581

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
2	Site Preparation	Site Preparation	2/26/2018	12/24/2021	5	1000	
3	Grading	Grading	2/25/2018	12/24/2021	5	1000	
4	Building Construction	Building Construction	7/26/2018	5/25/2022	5	1000	
5	Paving	Paving	9/10/2018	7/8/2022	5	1000	
6	Architectural Coating	Architectural Coating	11/9/2018	9/8/2022	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 1,694,925; Residential Outdoor: 564,975; Non-Residential Indoor: 14,283,087; Non-Residential Outdoor: 4,761,029; Striped

Parking Area: 0 (Architectural Coating - sqft)

#### **OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

# Trips and VMT

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	720.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,601.00	1,610.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

# **3.1 Mitigation Measures Construction**

### 3.2 **Demolition - 2017**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388	-	2.1935	2.1935		2.0425	2.0425	-	3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003	       	138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283	1.0730		3,951.107 0

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001
Total	0.0891	0.0589	0.7339	1.3900e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		137.8567	137.8567	5.7400e- 003		138.0001

# **3.2 Demolition - 2018**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

#### 3.2 **Demolition - 2019**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388	-	1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003	       	129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

### 3.2 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

# 3.2 Demolition - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.2 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

# 3.3 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		! !	0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928	,	3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931
Total	0.0956	0.0616	0.7713	1.6200e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		160.8421	160.8421	6.0400e- 003		160.9931

# 3.3 Site Preparation - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917		3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904	 	2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	       	3,796.244 5	
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5	

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181	
Total	0.0868	0.0541	0.6838	1.5600e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		155.3854	155.3854	5.3100e- 003		155.5181	

# 3.3 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust	: : :				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000	
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918		3,714.897 5	
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5	

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000		: :	0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918	i !	3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658
Total	0.0799	0.0480	0.6166	1.5100e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		150.5488	150.5488	4.6800e- 003		150.6658

## 3.3 Site Preparation - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		! ! !	0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920	       	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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## AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	i i	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.3 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597
Total	0.0743	0.0430	0.5672	1.4600e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		145.7541	145.7541	4.2200e- 003		145.8597

# 3.4 Grading - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440	 	6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620	 	2.6337	2.6337	 	2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440	i i	6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812
Total	0.1062	0.0684	0.8570	1.8000e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		178.7134	178.7134	6.7100e- 003		178.8812

## 3.4 Grading - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979
Total	0.0965	0.0601	0.7598	1.7400e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		172.6504	172.6504	5.9000e- 003		172.7979

# 3.4 Grading - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000		: :	0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424	i ! !	6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064
Total	0.0888	0.0534	0.6852	1.6800e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		167.2764	167.2764	5.2000e- 003		167.4064

# 3.4 Grading - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428	 	6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i i	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.4 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663
Total	0.0826	0.0478	0.6302	1.6300e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		161.9490	161.9490	4.6900e- 003		162.0663

# 3.5 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.6826	201.8077	43.3995	0.4626	10.9075	1.4454	12.3528	3.1404	1.3827	4.5232		48,730.75 39	48,730.75 39	3.2451		48,811.880 8
Worker	19.1157	12.3158	154.2935	0.3237	29.5814	0.2121	29.7934	7.8464	0.1955	8.0418		32,177.34 62	32,177.34 62	1.2083	       	32,207.55 39
Total	25.7983	214.1235	197.6929	0.7863	40.4888	1.6574	42.1463	10.9868	1.5782	12.5650		80,908.10 01	80,908.10 01	4.4534		81,019.43 47

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2018 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.6826	201.8077	43.3995	0.4626	10.9075	1.4454	12.3528	3.1404	1.3827	4.5232		48,730.75 39	48,730.75 39	3.2451		48,811.880 8
Worker	19.1157	12.3158	154.2935	0.3237	29.5814	0.2121	29.7934	7.8464	0.1955	8.0418		32,177.34 62	32,177.34 62	1.2083		32,207.55 39
Total	25.7983	214.1235	197.6929	0.7863	40.4888	1.6574	42.1463	10.9868	1.5782	12.5650		80,908.10 01	80,908.10 01	4.4534		81,019.43 47

# 3.5 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9436	189.3428	38.6013	0.4577	10.9073	1.2229	12.1302	3.1404	1.1699	4.3103		48,243.81 99	48,243.81 99	3.1682		48,323.02 50
Worker	17.3721	10.8245	136.7936	0.3125	29.5814	0.2053	29.7867	7.8464	0.1891	8.0355		31,085.70 56	31,085.70 56	1.0619		31,112.253 7
Total	23.3157	200.1672	175.3948	0.7702	40.4886	1.4283	41.9169	10.9867	1.3590	12.3458		79,329.52 55	79,329.52 55	4.2301		79,435.27 87

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9436	189.3428	38.6013	0.4577	10.9073	1.2229	12.1302	3.1404	1.1699	4.3103		48,243.81 99	48,243.81 99	3.1682		48,323.02 50
Worker	17.3721	10.8245	136.7936	0.3125	29.5814	0.2053	29.7867	7.8464	0.1891	8.0355		31,085.70 56	31,085.70 56	1.0619		31,112.253 7
Total	23.3157	200.1672	175.3948	0.7702	40.4886	1.4283	41.9169	10.9867	1.3590	12.3458		79,329.52 55	79,329.52 55	4.2301		79,435.27 87

## 3.5 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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## AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0211	173.1686	33.8744	0.4544	10.9071	0.8247	11.7317	3.1403	0.7889	3.9292		47,915.07 28	47,915.07 28	3.0223	       	47,990.62 95
Worker	15.9819	9.6103	123.3622	0.3026	29.5814	0.2001	29.7815	7.8464	0.1843	8.0306		30,118.113 1	30,118.113 1	0.9364	       	30,141.52 38
Total	21.0031	182.7789	157.2366	0.7570	40.4884	1.0248	41.5132	10.9867	0.9732	11.9598		78,033.18 60	78,033.18 60	3.9587		78,132.15 33

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0211	173.1686	33.8744	0.4544	10.9071	0.8247	11.7317	3.1403	0.7889	3.9292		47,915.07 28	47,915.07 28	3.0223		47,990.62 95
Worker	15.9819	9.6103	123.3622	0.3026	29.5814	0.2001	29.7815	7.8464	0.1843	8.0306		30,118.113 1	30,118.113 1	0.9364		30,141.52 38
Total	21.0031	182.7789	157.2366	0.7570	40.4884	1.0248	41.5132	10.9867	0.9732	11.9598		78,033.18 60	78,033.18 60	3.9587		78,132.15 33

## 3.5 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2695	157.8992	29.8541	0.4518	10.9069	0.2801	11.1870	3.1402	0.2679	3.4081		47,664.35 05	47,664.35 05	2.9242		47,737.45 56
Worker	14.8635	8.6112	113.4663	0.2929	29.5814	0.1953	29.7767	7.8464	0.1799	8.0262		29,158.91 58	29,158.91 58	0.8448	;	29,180.03 50
Total	19.1330	166.5104	143.3203	0.7447	40.4883	0.4754	40.9637	10.9866	0.4477	11.4343		76,823.26 63	76,823.26 63	3.7690		76,917.49 06

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2695	157.8992	29.8541	0.4518	10.9069	0.2801	11.1870	3.1402	0.2679	3.4081		47,664.35 05	47,664.35 05	2.9242	       	47,737.45 56
Worker	14.8635	8.6112	113.4663	0.2929	29.5814	0.1953	29.7767	7.8464	0.1799	8.0262		29,158.91 58	29,158.91 58	0.8448	       	29,180.03 50
Total	19.1330	166.5104	143.3203	0.7447	40.4883	0.4754	40.9637	10.9866	0.4477	11.4343		76,823.26 63	76,823.26 63	3.7690		76,917.49 06

# 3.5 Building Construction - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.5 Building Construction - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.9783	149.5822	27.6130	0.4480	10.9067	0.2354	11.1422	3.1402	0.2251	3.3653		47,281.12 22	47,281.12 22	2.8235	       	47,351.70 84
Worker	13.8652	7.7379	104.1698	0.2822	29.5814	0.1897	29.7710	7.8464	0.1746	8.0210		28,107.37 85	28,107.37 85	0.7575	       	28,126.31 50
Total	17.8435	157.3201	131.7828	0.7303	40.4881	0.4251	40.9132	10.9865	0.3997	11.3863		75,388.50 07	75,388.50 07	3.5809		75,478.02 33

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.5 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.9783	149.5822	27.6130	0.4480	10.9067	0.2354	11.1422	3.1402	0.2251	3.3653		47,281.12 22	47,281.12 22	2.8235	<del></del>	47,351.70 84
Worker	13.8652	7.7379	104.1698	0.2822	29.5814	0.1897	29.7710	7.8464	0.1746	8.0210		28,107.37 85	28,107.37 85	0.7575	       	28,126.31 50
Total	17.8435	157.3201	131.7828	0.7303	40.4881	0.4251	40.9132	10.9865	0.3997	11.3863		75,388.50 07	75,388.50 07	3.5809		75,478.02 33

# 3.6 Paving - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		       	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2
Paving	0.0000				       	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609
Total	0.0796	0.0513	0.6427	1.3500e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		134.0350	134.0350	5.0300e- 003		134.1609

3.6 Paving - 2019
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		i i i	0.0000		     	0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984
Total	0.0724	0.0451	0.5698	1.3000e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		129.4878	129.4878	4.4200e- 003		129.5984

3.6 Paving - 2020
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		i i i	0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000	i i				0.0000	0.0000		0.0000	0.0000		i i	0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548
Total	0.0666	0.0400	0.5139	1.2600e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		125.4573	125.4573	3.9000e- 003		125.5548

3.6 Paving - 2021

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000				 	0.0000	0.0000	       	0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000	 	 			0.0000	0.0000		0.0000	0.0000		i i	0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497
Total	0.0619	0.0359	0.4726	1.2200e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		121.4617	121.4617	3.5200e- 003		121.5497

# 3.6 Paving - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000				 	0.0000	0.0000	       	0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660	0.7140		2,225.510 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2022 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0322	0.4339	1.1800e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		117.0816	117.0816	3.1600e- 003		117.1604
Total	0.0578	0.0322	0.4339	1.1800e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		117.0816	117.0816	3.1600e- 003		117.1604

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		;	0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660	0.7140		2,225.510 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0578	0.0322	0.4339	1.1800e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		117.0816	117.0816	3.1600e- 003		117.1604
Total	0.0578	0.0322	0.4339	1.1800e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		117.0816	117.0816	3.1600e- 003		117.1604

# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	247.1589	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	, ! ! !	0.0000
Worker	3.8221	2.4625	30.8501	0.0647	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		6,433.682 1	6,433.682 1	0.2416	, ! ! !	6,439.722 0
Total	3.8221	2.4625	30.8501	0.0647	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		6,433.682 1	6,433.682 1	0.2416		6,439.722 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003	 	0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267	 	282.1171
Total	247.1589	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2018 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.8221	2.4625	30.8501	0.0647	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		6,433.682 1	6,433.682 1	0.2416	       	6,439.722 0
Total	3.8221	2.4625	30.8501	0.0647	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		6,433.682 1	6,433.682	0.2416		6,439.722 0

# 3.7 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	247.1267	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.4735	2.1643	27.3511	0.0625	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		6,215.414 6	6,215.414 6	0.2123	       	6,220.722 8
Total	3.4735	2.1643	27.3511	0.0625	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		6,215.414 6	6,215.414 6	0.2123		6,220.722 8

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	247.1267	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.4735	2.1643	27.3511	0.0625	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		6,215.414 6	6,215.414 6	0.2123		6,220.722 8
Total	3.4735	2.1643	27.3511	0.0625	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		6,215.414 6	6,215.414 6	0.2123		6,220.722 8

# 3.7 Architectural Coating - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	247.1025	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.1955	1.9215	24.6656	0.0605	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		6,021.949 9	6,021.949 9	0.1872		6,026.630 7
Total	3.1955	1.9215	24.6656	0.0605	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		6,021.949 9	6,021.949 9	0.1872		6,026.630 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	246.8603					0.0000	0.0000	i i	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003	 	0.1109	0.1109	1 1 1	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	247.1025	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.1955	1.9215	24.6656	0.0605	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		6,021.949 9	6,021.949 9	0.1872		6,026.630 7
Total	3.1955	1.9215	24.6656	0.0605	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		6,021.949 9	6,021.949 9	0.1872		6,026.630 7

# 3.7 Architectural Coating - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	247.0792	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	2.9719	1.7218	22.6870	0.0586	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,830.163 7	5,830.163 7	0.1689	       	5,834.386 3
Total	2.9719	1.7218	22.6870	0.0586	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,830.163 7	5,830.163 7	0.1689		5,834.386 3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193	,	281.9309
Total	247.0792	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

3.7 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.9719	1.7218	22.6870	0.0586	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,830.163 7	5,830.163 7	0.1689		5,834.386 3
Total	2.9719	1.7218	22.6870	0.0586	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,830.163 7	5,830.163 7	0.1689		5,834.386 3

# 3.7 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	247.0648	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.7723	1.5472	20.8282	0.0564	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,619.914 6	5,619.914 6	0.1515		5,623.700 9
Total	2.7723	1.5472	20.8282	0.0564	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,619.914 6	5,619.914 6	0.1515		5,623.700 9

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817	       	0.0817	0.0817	0.0000	281.4481	281.4481	0.0183	 	281.9062
Total	247.0648	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 3.7 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	2.7723	1.5472	20.8282	0.0564	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,619.914 6	5,619.914 6	0.1515	       	5,623.700 9
Total	2.7723	1.5472	20.8282	0.0564	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,619.914 6	5,619.914 6	0.1515		5,623.700 9

# 4.0 Operational Detail - Mobile

# 4.1 Mitigation Measures Mobile

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	427.0656	2,523.857 7	5,617.189 3	25.2186	2,073.891 0	14.4159	2,088.306 9	554.8157	13.4264	568.2421		2,577,626. 6977	2,577,626. 6977	104.7033		2,580,244. 2793
Unmitigated	427.0656	2,523.857 7	5,617.189 3	25.2186	2,073.891 0	14.4159	2,088.306 9	554.8157	13.4264	568.2421		2,577,626. 6977	2,577,626. 6977	104.7033		2,580,244. 2793

# **4.2 Trip Summary Information**

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.93	4,595.18	1961.36	33,294,784	33,294,784
Industrial Park	19,170.40	9,623.85	2821.45	471,646,004	471,646,004
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	4,529.10	4,608.15	4008.30	12,683,956	12,683,956
Total	184,931.96	208,168.51	104,427.99	768,139,652	768,139,652

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

#### 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

# **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
Unmitigated	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	ay		
General Office Building	17860.7	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	)   	0.1331	0.1331		2,101.263 5	2,101.263 5	0.0403	0.0385	2,113.7502
Industrial Park	36955.8	0.3985	3.6231	3.0434	0.0217		0.2754	0.2754	,       	0.2754	0.2754		4,347.735 7	4,347.735 7	0.0833	0.0797	4,373.572 1
Regional Shopping Center	23149.8	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	47298	0.5101	4.3588	1.8548	0.0278		0.3524	0.3524	,	0.3524	0.3524		5,564.472 5	5,564.472 5	0.1067	0.1020	5,597.539 4
Total		1.3509	12.0026	8.2756	0.0737		0.9334	0.9334		0.9334	0.9334		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

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AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 5.2 Energy by Land Use - NaturalGas

# **Mitigated**

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	17.8607	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	i i	0.1331	0.1331		2,101.263 5	2,101.263 5	0.0403	0.0385	2,113.7502
Industrial Park	36.9558	0.3985	3.6231	3.0434	0.0217		0.2754	0.2754	i i	0.2754	0.2754		4,347.735 7	4,347.735 7	0.0833	0.0797	4,373.572 1
Regional Shopping Center	. 20.1.100	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	i i	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	47.298	0.5101	4.3588	1.8548	0.0278		0.3524	0.3524	i i	0.3524	0.3524		5,564.472 5	5,564.472 5	0.1067	0.1020	5,597.539 4
Total		1.3509	12.0026	8.2756	0.0737		0.9334	0.9334		0.9334	0.9334		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

#### 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Mitigated	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Unmitigated	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

# 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/o	day							lb/d	lay		
Architectural Coating	67.6330					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	221.6838		1 1 1			0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	711.6337	13.8974	878.4345	1.5915		123.1649	123.1649		123.1649	123.1649	12,913.85 48	5,415.882 4	18,329.73 71	11.9173	1.0158	18,930.37 09
Landscaping	1.2400	0.4503	39.2964	2.1000e- 003	         	0.2161	0.2161		0.2161	0.2161		71.1608	71.1608	0.0716		72.9500
Total	1,002.190 5	14.3476	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

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AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Summer

# 6.2 Area by SubCategory

#### **Mitigated**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
Architectural Coating	67.6330					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	221.6838					0.0000	0.0000		0.0000	0.0000			0.0000		,       	0.0000
Hearth	711.6337	13.8974	878.4345	1.5915		123.1649	123.1649		123.1649	123.1649	12,913.85 48	5,415.882 4	18,329.73 71	11.9173	1.0158	18,930.37 09
Landscaping	1.2400	0.4503	39.2964	2.1000e- 003		0.2161	0.2161		0.2161	0.2161		71.1608	71.1608	0.0716	,	72.9500
Total	1,002.190 5	14.3476	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

#### 7.0 Water Detail

# 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

# 9.0 Operational Offroad

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

# 10.0 Stationary Equipment

# **Fire Pumps and Emergency Generators**

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

#### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

#### **User Defined Equipment**

Equipment Type	Number
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# 11.0 Vegetation

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AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

#### **AV Annexation 2017 plus SB County**

#### San Bernardino-Mojave Desert County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	465.00	Dwelling Unit	1,600.00	837,000.00	1330
General Office Building	1,867.96	1000sqft	209.00	1,867,957.00	0
Regional Shopping Center	3,789.10	1000sqft	557.00	3,789,101.00	0
Industrial Park	3,865.00	1000sqft	408.00	3,865,000.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edisc	on			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Buildout of 2017 Annexation (Golden Triangle Area) plus remaining county land within 2008 Annexation area.

Off-road Equipment -

Vehicle Trips - Trip rates provided by project specific Traffic Study.

Construction Phase - GP buildout is 2025.

AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	155,000.00	1,000.00
tblConstructionPhase	NumDays	10,000.00	1,000.00
tblConstructionPhase	NumDays	15,500.00	1,000.00
tblConstructionPhase	NumDays	11,000.00	1,000.00
tblConstructionPhase	NumDays	6,000.00	1,000.00
tblConstructionPhase	PhaseEndDate	1/6/2817	9/8/2022
tblConstructionPhase	PhaseEndDate	9/9/2732	5/25/2022
tblConstructionPhase	PhaseEndDate	2/25/2056	8/27/2021
tblConstructionPhase	PhaseEndDate	7/25/2138	12/24/2021
tblConstructionPhase	PhaseEndDate	11/8/2774	7/8/2022
tblConstructionPhase	PhaseEndDate	2/24/2079	12/24/2021
tblConstructionPhase	PhaseStartDate	11/9/2774	11/9/2018
tblConstructionPhase	PhaseStartDate	7/26/2138	7/26/2018
tblConstructionPhase	PhaseStartDate	2/25/2079	2/25/2018
tblConstructionPhase	PhaseStartDate	9/10/2732	9/10/2018
tblConstructionPhase	PhaseStartDate	2/26/2056	2/26/2018
tblGrading	AcresOfGrading	2,500.00	38,750.00
tblLandUse	BuildingSpaceSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	BuildingSpaceSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LandUseSquareFeet	1,867,960.00	1,867,957.00
tblLandUse	LandUseSquareFeet	3,789,100.00	3,789,101.00
tblLandUse	LotAcreage	150.97	1,600.00
tblLandUse	LotAcreage	42.88	209.00
tblLandUse	LotAcreage	86.99	557.00

tblLandUse	LotAcreage	88.73	408.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblVehicleTrips	CC_TL	7.30	100.00
tblVehicleTrips	CNW_TL	7.30	100.00
tblVehicleTrips	CW_TL	9.50	100.00
tblVehicleTrips	WD_TR	11.03	9.74
tblVehicleTrips	WD_TR	6.83	4.96
tblVehicleTrips	WD_TR	42.70	37.75
tblVehicleTrips	WD_TR	9.52	9.74

# 2.0 Emissions Summary

# 2.1 Overall Construction (Maximum Daily Emission)

#### **Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day					lb/day					
2017	4.1901	42.8097	23.6284	0.0401	0.1232	2.1944	2.3176	0.0327	2.0434	2.0760	0.0000	4,048.056 2	4,048.056 2	1.0781	0.0000	4,075.007 4
2018	294.5695	405.9480	320.8046	0.9913	112.1448	11.4771	123.6219	30.3819	10.6764	41.0584	0.0000	101,292.4 486	101,292.4 486	10.4590	0.0000	101,553.9 242
2019	290.4338	376.3898	294.7593	0.9741	112.1446	10.2997	122.4443	30.3819	9.5760	39.9579	0.0000	99,318.39 86	99,318.39 86	10.2021	0.0000	99,573.45 21
2020	286.7544	345.0216	273.1128	0.9599	112.1444	9.0892	121.2336	30.3818	8.4402	38.8220	0.0000	97,557.04 97	97,557.04 97	9.8985	0.0000	97,804.51 28
2021	283.7423	317.6264	256.5509	0.9469	112.1442	7.8372	119.9814	30.3817	7.2616	37.6433	0.0000	96,267.83 00	96,267.83 00	9.6875	0.0000	96,510.01 74
2022	270.4782	185.9056	169.2813	0.7889	46.5259	1.9290	48.4550	12.5880	1.8070	14.3951	0.0000	80,926.22 10	80,926.22 10	5.2824	0.0000	81,058.28 12
Maximum	294.5695	405.9480	320.8046	0.9913	112.1448	11.4771	123.6219	30.3819	10.6764	41.0584	0.0000	101,292.4 486	101,292.4 486	10.4590	0.0000	101,553.9 242

# 2.1 Overall Construction (Maximum Daily Emission)

# **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Tota	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb/	day		
2017	4.1901	42.8097	23.6284	0.0401	0.1232	2.1944	2.3176	0.0327	2.0434	2.0760	0.0000	4,048.056 2	4,048.056 2	1.0781	0.0000	4,075.007 4
2018	294.5695	405.9480	320.8046	0.9913	112.1448	11.4771	123.6219	30.3819	10.6764	41.0584	0.0000	101,292.4 486	101,292.4 486	10.4590	0.0000	101,553.9 242
2019	290.4338	376.3898	294.7593	0.9741	112.1446	10.2997	122.4443	30.3819	9.5760	39.9579	0.0000	99,318.39 86	99,318.39 86	10.2021	0.0000	99,573.45 20
2020	286.7544	345.0216	273.1128	0.9599	112.1444	9.0892	121.2336	30.3818	8.4402	38.8220	0.0000	97,557.04 97	97,557.04 97	9.8985	0.0000	97,804.51 28
2021	283.7423	317.6264	256.5509	0.9469	112.1442	7.8372	119.9814	30.3817	7.2616	37.6433	0.0000	96,267.83 00	96,267.83 00	9.6875	0.0000	96,510.01 74
2022	270.4782	185.9056	169.2813	0.7889	46.5259	1.9290	48.4550	12.5880	1.8070	14.3951	0.0000	80,926.22 10	80,926.22 10	5.2824	0.0000	81,058.28 12
Maximum	294.5695	405.9480	320.8046	0.9913	112.1448	11.4771	123.6219	30.3819	10.6764	41.0584	0.0000	101,292.4 486	101,292.4 486	10.4590	0.0000	101,553.9 242
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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# AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day											lb/d	day		
Area	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Energy	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
Mobile	373.1716	2,530.149 1	4,845.1137	23.3107	2,073.891 0	14.4778	2,088.368 7	554.8157	13.4856	568.3013		2,385,918. 8662	2,385,918. 8662	105.7094		2,388,561. 6006
Total	1,376.713 0	2,556.499 4	5,771.120 1	24.9779	2,073.891 0	138.7921	2,212.683 1	554.8157	137.8000	692.6156	12,913.85 48	2,406,142. 8928	2,419,056. 7476	117.9807	1.2860	2,422,389. 4794

# **Mitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day lb/day										day					
Area	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Energy	1.3509	12.0026	8.2756	0.0737	,	0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
Mobile	373.1716	2,530.149 1	4,845.1137	23.3107	2,073.891 0	14.4778	2,088.368 7	554.8157	13.4856	568.3013		2,385,918. 8662	2,385,918. 8662	105.7094		2,388,561. 6006
Total	1,376.713 0	2,556.499 4	5,771.120 1	24.9779	2,073.891 0	138.7921	2,212.683 1	554.8157	137.8000	692.6156	12,913.85 48	2,406,142. 8928	2,419,056. 7476	117.9807	1.2860	2,422,389. 4794

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 3.0 Construction Detail

#### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/30/2017	8/27/2021	5	1000	
2	Site Preparation	Site Preparation	2/26/2018	12/24/2021	5	1000	
3	Grading	Grading	2/25/2018	12/24/2021	5	1000	
4	Building Construction	Building Construction	7/26/2018	5/25/2022	5	1000	
5	Paving	Paving	9/10/2018	7/8/2022	5	1000	
6	Architectural Coating	Architectural Coating	11/9/2018	9/8/2022	5	1000	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38750

Acres of Paving: 0

Residential Indoor: 1,694,925; Residential Outdoor: 564,975; Non-Residential Indoor: 14,283,087; Non-Residential Outdoor: 4,761,029; Striped

Parking Area: 0 (Architectural Coating - sqft)

#### OffRoad Equipment

AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	+	8.00	46	0.45

# **Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	720.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	3,601.00	1,610.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

# **3.1 Mitigation Measures Construction**

#### 3.2 **Demolition - 2017**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425		3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2017

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0
Total	4.1031	42.7475	23.0122	0.0388		2.1935	2.1935		2.0425	2.0425	0.0000	3,924.283 3	3,924.283 3	1.0730		3,951.107 0

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005
Total	0.0870	0.0622	0.6162	1.2500e- 003	0.1232	9.2000e- 004	0.1241	0.0327	8.5000e- 004	0.0335		123.7729	123.7729	5.1000e- 003		123.9005

# **3.2 Demolition - 2018**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4
Total	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.766 5	3,871.766 5	1.0667		3,898.434 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

# 3.2 **Demolition - 2019**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1
Total	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.899 4	3,816.899 4	1.0618		3,843.445 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

# 3.2 Demolition - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003	       	112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6
Total	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.704 9	3,747.704 9	1.0580		3,774.153 6

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

# 3.2 **Demolition - 2021**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
Total	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.2 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

# 3.3 Site Preparation - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.623 9	3,831.623 9	1.1928		3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380	 	2.5769	2.5769	 	2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928	       	3,861.444 8
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category		lb/day										lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Worker	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112			
Total	0.0932	0.0649	0.6458	1.4500e- 003	0.1479	1.0600e- 003	0.1489	0.0392	9.8000e- 004	0.0402		144.3773	144.3773	5.3600e- 003		144.5112			

# 3.3 Site Preparation - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904	 	2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917		3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2019

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900			
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900			

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380	 	2.3904	2.3904	 	2.1991	2.1991	0.0000	3,766.452 9	3,766.452 9	1.1917	 	3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.452 9	3,766.452 9	1.1917		3,796.244 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	lb/day											lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000			
Worker	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900			
Total	0.0848	0.0570	0.5715	1.4000e- 003	0.1479	1.0300e- 003	0.1489	0.0392	9.5000e- 004	0.0402		139.4726	139.4726	4.7000e- 003		139.5900			

# 3.3 Site Preparation - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.101 6	3,685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003	       	135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i i	0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.101 6	3,685.101 6	1.1918		3,714.897 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003	       	135.2301
Total	0.0781	0.0506	0.5144	1.3600e- 003	0.1479	1.0000e- 003	0.1489	0.0392	9.2000e- 004	0.0401		135.1266	135.1266	4.1400e- 003		135.2301

### 3.3 Site Preparation - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				18.0663	0.0000	18.0663	9.9307	0.0000	9.9307		i i	0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.656 9	3,685.656 9	1.1920		3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380	 	2.0445	2.0445	 	1.8809	1.8809	0.0000	3,685.656 9	3,685.656 9	1.1920	 	3,715.457 3
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.656 9	3,685.656 9	1.1920		3,715.457 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.3 Site Preparation - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226
Total	0.0728	0.0453	0.4720	1.3100e- 003	0.1479	9.8000e- 004	0.1488	0.0392	9.0000e- 004	0.0401		130.8293	130.8293	3.7300e- 003		130.9226

## 3.4 Grading - 2018

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705		6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2018

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		! ! !	0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8
Total	5.0901	59.5218	35.0894	0.0620	47.1165	2.6337	49.7502	7.7475	2.4230	10.1705	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680
Total	0.1036	0.0721	0.7175	1.6100e- 003	0.1643	1.1800e- 003	0.1655	0.0436	1.0900e- 003	0.0447		160.4193	160.4193	5.9500e- 003		160.5680

# 3.4 Grading - 2019

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i	0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395		6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4
Total	4.7389	54.5202	33.3768	0.0620	47.1165	2.3827	49.4991	7.7475	2.1920	9.9395	0.0000	6,140.019 5	6,140.019 5	1.9426		6,188.585 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000
Total	0.0942	0.0633	0.6350	1.5600e- 003	0.1643	1.1400e- 003	0.1654	0.0436	1.0500e- 003	0.0446		154.9695	154.9695	5.2200e- 003		155.1000

## 3.4 Grading - 2020

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.865 3	6,005.865 3	1.9424		6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475		6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2020

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620	 	2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424	       	6,054.425 7
Total	4.4501	50.1975	31.9583	0.0620	47.1165	2.1739	49.2904	7.7475	2.0000	9.7475	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557
Total	0.0868	0.0562	0.5715	1.5100e- 003	0.1643	1.1100e- 003	0.1654	0.0436	1.0200e- 003	0.0446		150.1407	150.1407	4.6000e- 003		150.2557

## 3.4 Grading - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		1 1 1	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust	i i				47.1165	0.0000	47.1165	7.7475	0.0000	7.7475		i i i	0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	47.1165	1.9853	49.1018	7.7475	1.8265	9.5740	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.4 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696
Total	0.0808	0.0503	0.5245	1.4600e- 003	0.1643	1.0800e- 003	0.1654	0.0436	1.0000e- 003	0.0446		145.3658	145.3658	4.1500e- 003		145.4696

## 3.5 Building Construction - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.5 Building Construction - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9884	201.1699	49.2482	0.4457	10.9075	1.4629	12.3703	3.1404	1.3994	4.5399		46,944.15 23	46,944.15 23	3.5665		47,033.31 58
Worker	18.6468	12.9784	129.1861	0.2904	29.5814	0.2121	29.7934	7.8464	0.1955	8.0418		28,883.48 66	28,883.48 66	1.0715		28,910.27 27
Total	25.6352	214.1483	178.4343	0.7362	40.4888	1.6749	42.1638	10.9868	1.5949	12.5817		75,827.63 89	75,827.63 89	4.6380		75,943.58 85

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.5 Building Construction - 2018 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9884	201.1699	49.2482	0.4457	10.9075	1.4629	12.3703	3.1404	1.3994	4.5399		46,944.15 23	46,944.15 23	3.5665		47,033.31 58
Worker	18.6468	12.9784	129.1861	0.2904	29.5814	0.2121	29.7934	7.8464	0.1955	8.0418		28,883.48 66	28,883.48 66	1.0715		28,910.27 27
Total	25.6352	214.1483	178.4343	0.7362	40.4888	1.6749	42.1638	10.9868	1.5949	12.5817		75,827.63 89	75,827.63 89	4.6380		75,943.58 85

## 3.5 Building Construction - 2019

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.5 Building Construction - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.2333	188.4617	44.2426	0.4408	10.9073	1.2383	12.1455	3.1404	1.1846	4.3249		46,456.93 42	46,456.93 42	3.4914		46,544.21 91
Worker	16.9596	11.3994	114.3286	0.2804	29.5814	0.2053	29.7867	7.8464	0.1891	8.0355		27,902.26 27	27,902.26 27	0.9398	; ! ! !	27,925.75 69
Total	23.1929	199.8612	158.5712	0.7212	40.4886	1.4436	41.9322	10.9867	1.3737	12.3604		74,359.19 69	74,359.19 69	4.4312		74,469.97 60

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.5 Building Construction - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.2333	188.4617	44.2426	0.4408	10.9073	1.2383	12.1455	3.1404	1.1846	4.3249		46,456.93 42	46,456.93 42	3.4914		46,544.21 91
Worker	16.9596	11.3994	114.3286	0.2804	29.5814	0.2053	29.7867	7.8464	0.1891	8.0355		27,902.26 27	27,902.26 27	0.9398		27,925.75 69
Total	23.1929	199.8612	158.5712	0.7212	40.4886	1.4436	41.9322	10.9867	1.3737	12.3604		74,359.19 69	74,359.19 69	4.4312		74,469.97 60

## 3.5 Building Construction - 2020

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.5 Building Construction - 2020 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2892	171.9426	39.1332	0.4375	10.9071	0.8345	11.7416	3.1403	0.7983	3.9386		46,127.76 72	46,127.76 72	3.3382		46,211.223 0
Worker	15.6279	10.1144	102.9042	0.2715	29.5814	0.2001	29.7815	7.8464	0.1843	8.0306		27,032.82 45	27,032.82 45	0.8282		27,053.52 92
Total	20.9170	182.0570	142.0374	0.7090	40.4884	1.0346	41.5231	10.9867	0.9826	11.9693		73,160.59 17	73,160.59 17	4.1664		73,264.75 22

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.5 Building Construction - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.2892	171.9426	39.1332	0.4375	10.9071	0.8345	11.7416	3.1403	0.7983	3.9386		46,127.76 72	46,127.76 72	3.3382		46,211.223 0
Worker	15.6279	10.1144	102.9042	0.2715	29.5814	0.2001	29.7815	7.8464	0.1843	8.0306		27,032.82 45	27,032.82 45	0.8282		27,053.52 92
Total	20.9170	182.0570	142.0374	0.7090	40.4884	1.0346	41.5231	10.9867	0.9826	11.9693		73,160.59 17	73,160.59 17	4.1664		73,264.75 22

#### 3.5 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.5 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5233	156.3691	34.8074	0.4350	10.9069	0.2875	11.1944	3.1402	0.2750	3.4152		45,884.62 79	45,884.62 79	3.2380	       	45,965.57 79
Worker	14.5541	9.0593	94.4348	0.2628	29.5814	0.1953	29.7767	7.8464	0.1799	8.0262		26,173.119 8	26,173.119 8	0.7471	       	26,191.79 76
Total	19.0774	165.4283	129.2422	0.6978	40.4883	0.4828	40.9711	10.9866	0.4548	11.4414		72,057.74 78	72,057.74 78	3.9851		72,157.37 55

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.363 9	2,553.363 9	0.6160		2,568.764 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.5 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5233	156.3691	34.8074	0.4350	10.9069	0.2875	11.1944	3.1402	0.2750	3.4152		45,884.62 79	45,884.62 79	3.2380	     	45,965.57 79
Worker	14.5541	9.0593	94.4348	0.2628	29.5814	0.1953	29.7767	7.8464	0.1799	8.0262		26,173.119 8	26,173.119 8	0.7471	       	26,191.79 76
Total	19.0774	165.4283	129.2422	0.6978	40.4883	0.4828	40.9711	10.9866	0.4548	11.4414		72,057.74 78	72,057.74 78	3.9851		72,157.37 55

#### 3.5 Building Construction - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.5 Building Construction - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2201	147.9588	32.3225	0.4312	10.9067	0.2420	11.1488	3.1402	0.2315	3.3716		45,501.85 81	45,501.85 81	3.1311	       	45,580.13 61
Worker	13.6069	8.1370	86.5380	0.2533	29.5814	0.1897	29.7710	7.8464	0.1746	8.0210		25,231.01 86	25,231.01 86	0.6702	       	25,247.77 40
Total	17.8270	156.0958	118.8605	0.6845	40.4881	0.4317	40.9198	10.9865	0.4061	11.3926		70,732.87 67	70,732.87 67	3.8013		70,827.91 01

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.5 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2201	147.9588	32.3225	0.4312	10.9067	0.2420	11.1488	3.1402	0.2315	3.3716		45,501.85 81	45,501.85 81	3.1311		45,580.13 61
Worker	13.6069	8.1370	86.5380	0.2533	29.5814	0.1897	29.7710	7.8464	0.1746	8.0210		25,231.01 86	25,231.01 86	0.6702		25,247.77 40
Total	17.8270	156.0958	118.8605	0.6845	40.4881	0.4317	40.9198	10.9865	0.4061	11.3926		70,732.87 67	70,732.87 67	3.8013		70,827.91 01

# 3.6 Paving - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561	i i	0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.9432
Paving	0.0000		i i		     	0.0000	0.0000	i i	0.0000	0.0000		i i i	0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2018

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260
Total	0.0777	0.0541	0.5381	1.2100e- 003	0.1232	8.8000e- 004	0.1241	0.0327	8.1000e- 004	0.0335		120.3144	120.3144	4.4600e- 003		120.4260

# 3.6 Paving - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000	,				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	0.0000	i i				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.002 5	2,257.002 5	0.7141		2,274.854 8

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2019

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250
Total	0.0707	0.0475	0.4762	1.1700e- 003	0.1232	8.6000e- 004	0.1241	0.0327	7.9000e- 004	0.0335		116.2271	116.2271	3.9100e- 003		116.3250

3.6 Paving - 2020
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020
Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.0000	i i				0.0000	0.0000		0.0000	0.0000		i i	0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.733 4	2,207.733 4	0.7140		2,225.584 1

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2020

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917
Total	0.0651	0.0421	0.4287	1.1300e- 003	0.1232	8.3000e- 004	0.1241	0.0327	7.7000e- 004	0.0335		112.6055	112.6055	3.4500e- 003		112.6917

# 3.6 Paving - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000				   	0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3
Paving	0.0000					0.0000	0.0000	       	0.0000	0.0000			0.0000		; ! !	0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.210 9	2,207.210 9	0.7139		2,225.057 3

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022
Total	0.0606	0.0377	0.3934	1.0900e- 003	0.1232	8.1000e- 004	0.1240	0.0327	7.5000e- 004	0.0334		109.0244	109.0244	3.1100e- 003		109.1022

# 3.6 Paving - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000		       	0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660	2,207.660	0.7140		2,225.510 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0567	0.0339	0.3605	1.0500e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		105.1001	105.1001	2.7900e- 003		105.1698
Total	0.0567	0.0339	0.3605	1.0500e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		105.1001	105.1001	2.7900e- 003		105.1698

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000	 				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510 4

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0567	0.0339	0.3605	1.0500e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		105.1001	105.1001	2.7900e- 003		105.1698
Total	0.0567	0.0339	0.3605	1.0500e- 003	0.1232	7.9000e- 004	0.1240	0.0327	7.3000e- 004	0.0334		105.1001	105.1001	2.7900e- 003		105.1698

# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	247.1589	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2018 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.7283	2.5950	25.8301	0.0581	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		5,775.093 1	5,775.093 1	0.2142		5,780.448 9
Total	3.7283	2.5950	25.8301	0.0581	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		5,775.093 1	5,775.093 1	0.2142		5,780.448 9

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	247.1589	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.7283	2.5950	25.8301	0.0581	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		5,775.093 1	5,775.093 1	0.2142	       	5,780.448 9
Total	3.7283	2.5950	25.8301	0.0581	5.9146	0.0424	5.9570	1.5688	0.0391	1.6079		5,775.093 1	5,775.093 1	0.2142		5,780.448 9

# 3.7 Architectural Coating - 2019 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	247.1267	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.7 Architectural Coating - 2019 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.3910	2.2793	22.8594	0.0561	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		5,578.902 8	5,578.902 8	0.1879		5,583.600 4
Total	3.3910	2.2793	22.8594	0.0561	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		5,578.902 8	5,578.902 8	0.1879		5,583.600 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	i i	282.0423
Total	247.1267	1.8354	1.8413	2.9700e- 003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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#### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

### 3.7 Architectural Coating - 2019 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.3910	2.2793	22.8594	0.0561	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		5,578.902 8	5,578.902 8	0.1879		5,583.600 4
Total	3.3910	2.2793	22.8594	0.0561	5.9146	0.0411	5.9557	1.5688	0.0378	1.6067		5,578.902 8	5,578.902 8	0.1879		5,583.600 4

### 3.7 Architectural Coating - 2020 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	247.1025	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2020 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.1247	2.0223	20.5751	0.0543	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		5,405.063 5	5,405.063 5	0.1656		5,409.203 3
Total	3.1247	2.0223	20.5751	0.0543	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		5,405.063 5	5,405.063 5	0.1656		5,409.203 3

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e- 003	·	0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	247.1025	1.6838	1.8314	2.9700e- 003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

3.7 Architectural Coating - 2020 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	3.1247	2.0223	20.5751	0.0543	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		5,405.063 5	5,405.063 5	0.1656		5,409.203 3
Total	3.1247	2.0223	20.5751	0.0543	5.9146	0.0400	5.9546	1.5688	0.0369	1.6057		5,405.063 5	5,405.063 5	0.1656		5,409.203 3

# 3.7 Architectural Coating - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	247.0792	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.9100	1.8114	18.8817	0.0525	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,233.170 3	5,233.170 3	0.1494		5,236.904 8
Total	2.9100	1.8114	18.8817	0.0525	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,233.170 3	5,233.170 3	0.1494		5,236.904 8

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e- 003		0.0941	0.0941	 	0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	247.0792	1.5268	1.8176	2.9700e- 003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.9100	1.8114	18.8817	0.0525	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,233.170 3	5,233.170 3	0.1494		5,236.904 8
Total	2.9100	1.8114	18.8817	0.0525	5.9146	0.0391	5.9537	1.5688	0.0360	1.6048		5,233.170 3	5,233.170 3	0.1494		5,236.904 8

# 3.7 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	247.0648	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	       	0.0000
Worker	2.7206	1.6269	17.3028	0.0506	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,044.802 4	5,044.802 4	0.1340		5,048.152 5
Total	2.7206	1.6269	17.3028	0.0506	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,044.802 4	5,044.802 4	0.1340		5,048.152 5

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	246.8603					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183	i i	281.9062
Total	247.0648	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 3.7 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	2.7206	1.6269	17.3028	0.0506	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,044.802 4	5,044.802 4	0.1340		5,048.152 5
Total	2.7206	1.6269	17.3028	0.0506	5.9146	0.0379	5.9526	1.5688	0.0349	1.6038		5,044.802 4	5,044.802 4	0.1340		5,048.152 5

# 4.0 Operational Detail - Mobile

# 4.1 Mitigation Measures Mobile

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## AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Mitigated	373.1716	2,530.149 1	4,845.1137	23.3107	2,073.891 0	14.4778	2,088.368 7	554.8157	13.4856	568.3013		2,385,918. 8662	2,385,918. 8662	105.7094		2,388,561. 6006
Unmitigated	373.1716	2,530.149 1	4,845.1137	23.3107	2,073.891 0	14.4778	2,088.368 7	554.8157	13.4856	568.3013		2,385,918. 8662	2,385,918. 8662	105.7094		2,388,561. 6006

## **4.2 Trip Summary Information**

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18,193.93	4,595.18	1961.36	33,294,784	33,294,784
Industrial Park	19,170.40	9,623.85	2821.45	471,646,004	471,646,004
Regional Shopping Center	143,038.53	189,341.33	95636.88	250,514,908	250,514,908
Single Family Housing	4,529.10	4,608.15	4008.30	12,683,956	12,683,956
Total	184,931.96	208,168.51	104,427.99	768,139,652	768,139,652

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Industrial Park	100.00	100.00	100.00	59.00	28.00	13.00	79	19	2
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3

## 4.4 Fleet Mix

### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Single Family Housing	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
General Office Building	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Regional Shopping Center	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784
Industrial Park	0.561207	0.034889	0.182561	0.109119	0.013494	0.004661	0.018668	0.065354	0.001366	0.001451	0.005650	0.000795	0.000784

# 5.0 Energy Detail

Historical Energy Use: N

## **5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
NaturalGas Mitigated	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80
NaturalGas Unmitigated	1.3509	12.0026	8.2756	0.0737		0.9333	0.9333		0.9333	0.9333		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

CalEEMod Version: CalEEMod.2016.3.1 Page 68 of 72 Date: 10/30/2017 4:52 PM

## AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	ay		
General Office Building	17860.7	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331	)   	0.1331	0.1331		2,101.263 5	2,101.263 5	0.0403	0.0385	2,113.7502
Industrial Park	36955.8	0.3985	3.6231	3.0434	0.0217		0.2754	0.2754	,       	0.2754	0.2754		4,347.735 7	4,347.735 7	0.0833	0.0797	4,373.572 1
Regional Shopping Center	23149.8	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	47298	0.5101	4.3588	1.8548	0.0278		0.3524	0.3524	,	0.3524	0.3524		5,564.472 5	5,564.472 5	0.1067	0.1020	5,597.539 4
Total		1.3509	12.0026	8.2756	0.0737		0.9334	0.9334		0.9334	0.9334		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

CalEEMod Version: CalEEMod.2016.3.1 Page 69 of 72 Date: 10/30/2017 4:52 PM

### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

# 5.2 Energy by Land Use - NaturalGas

## **Mitigated**

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Office Building	17.8607	0.1926	1.7511	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.263 5	2,101.263 5	0.0403	0.0385	2,113.7502
Industrial Park	36.9558	0.3985	3.6231	3.0434	0.0217		0.2754	0.2754	,       	0.2754	0.2754		4,347.735 7	4,347.735 7	0.0833	0.0797	4,373.572 1
Regional Shopping Center	23.1498	0.2497	2.2696	1.9065	0.0136		0.1725	0.1725	,       	0.1725	0.1725		2,723.5118	2,723.5118	0.0522	0.0499	2,739.696 2
Single Family Housing	47.298	0.5101	4.3588	1.8548	0.0278		0.3524	0.3524	,	0.3524	0.3524		5,564.472 5	5,564.472 5	0.1067	0.1020	5,597.539 4
Total		1.3509	12.0026	8.2756	0.0737		0.9334	0.9334		0.9334	0.9334		14,736.98 35	14,736.98 35	0.2825	0.2702	14,824.55 80

### 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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## AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Mitigated	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09
Unmitigated	1,002.190 5	14.3477	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

# 6.2 Area by SubCategory

# <u>Unmitigated</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory		67.6320											lb/d	day		
Architectural Coating	67.6330		! !		1 1	0.0000	0.0000		0.0000	0.0000			0.0000	1 1 1	1 1 1	0.0000
Consumer Products	221.6838					0.0000	0.0000	     	0.0000	0.0000			0.0000		       	0.0000
Hearth	711.6337	13.8974	878.4345	1.5915		123.1649	123.1649	     	123.1649	123.1649	12,913.85 48	5,415.882 4	18,329.73 71	11.9173	1.0158	18,930.37 09
Landscaping	1.2400	0.4503	39.2964	2.1000e- 003	]   	0.2161	0.2161	     	0.2161	0.2161		71.1608	71.1608	0.0716	       	72.9500
Total	1,002.190 5	14.3476	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

CalEEMod Version: CalEEMod.2016.3.1 Page 71 of 72 Date: 10/30/2017 4:52 PM

AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

## 6.2 Area by SubCategory

### **Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	67.6330					0.0000	0.0000		0.0000	0.0000			0.0000	 		0.0000
Consumer Products	221.6838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	711.6337	13.8974	878.4345	1.5915		123.1649	123.1649		123.1649	123.1649	12,913.85 48	5,415.882 4	18,329.73 71	11.9173	1.0158	18,930.37 09
Landscaping	1.2400	0.4503	39.2964	2.1000e- 003	 	0.2161	0.2161		0.2161	0.2161		71.1608	71.1608	0.0716		72.9500
Total	1,002.190 5	14.3476	917.7309	1.5936		123.3810	123.3810		123.3810	123.3810	12,913.85 48	5,487.043 1	18,400.89 79	11.9889	1.0158	19,003.32 09

#### 7.0 Water Detail

# 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

# 10.0 Stationary Equipment

### AV Annexation 2017 plus SB County - San Bernardino-Mojave Desert County, Winter

## **Fire Pumps and Emergency Generators**

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

#### **Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

#### **User Defined Equipment**

Equipment Type	Number
----------------	--------

# 11.0 Vegetation

# Appendix B Biological Resources Study



# BIOLOGICAL RESOURCES ASSESSMENT REPORT Apple Valley Annexation Project

Town of Apple Valley
San Bernardino County
California

#### Submitted to:

#### Terra Nova Planning and Research, Inc.

42635 Melanie Place, Suite 101 Palm Desert, CA 92211 Tel: (760) 341-4800 Fax: (760) 341-4455

Contact: Nicole Criste, Principal

#### Submitted by:

#### Amec Foster Wheeler Environment & Infrastructure, Inc.

3120 Chicago Avenue, Suite 110 Riverside, CA 92507 Tel: (951) 369-8060

Fax: (951) 369-8035

Contact: Michael D. Wilcox Senior Biologist michael.wilcox@amec.com

13 September 2017



# BIOLOGICAL RESOURCES ASSESSMENT REPORT Apple Valley Annexation Project

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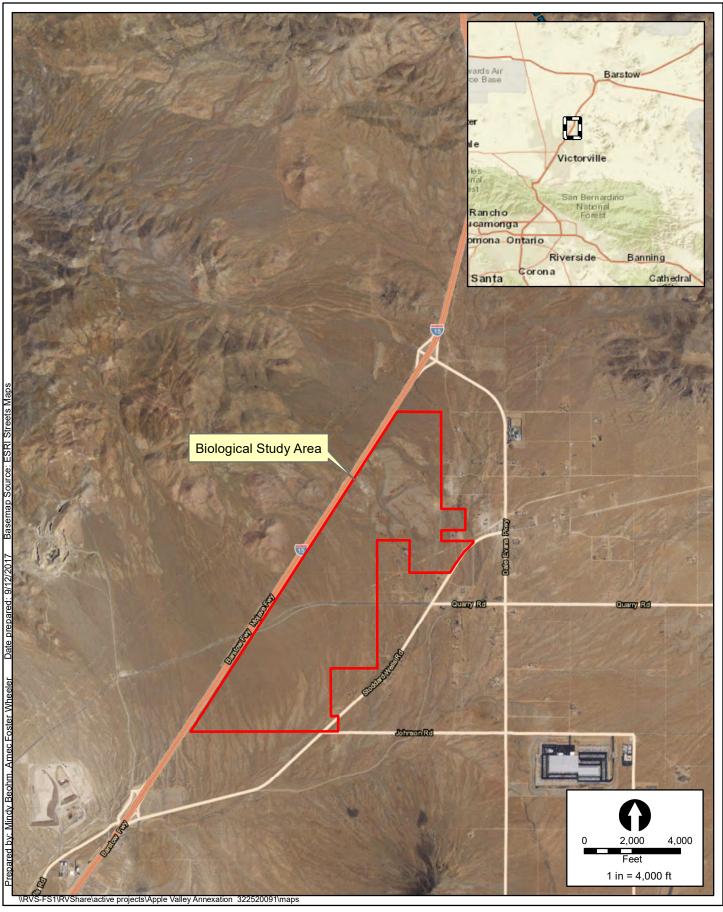
# BIOLOGICAL RESOURCES ASSESSMENT REPORT Apple Valley Annexation Project

#### 1.0 INTRODUCTION

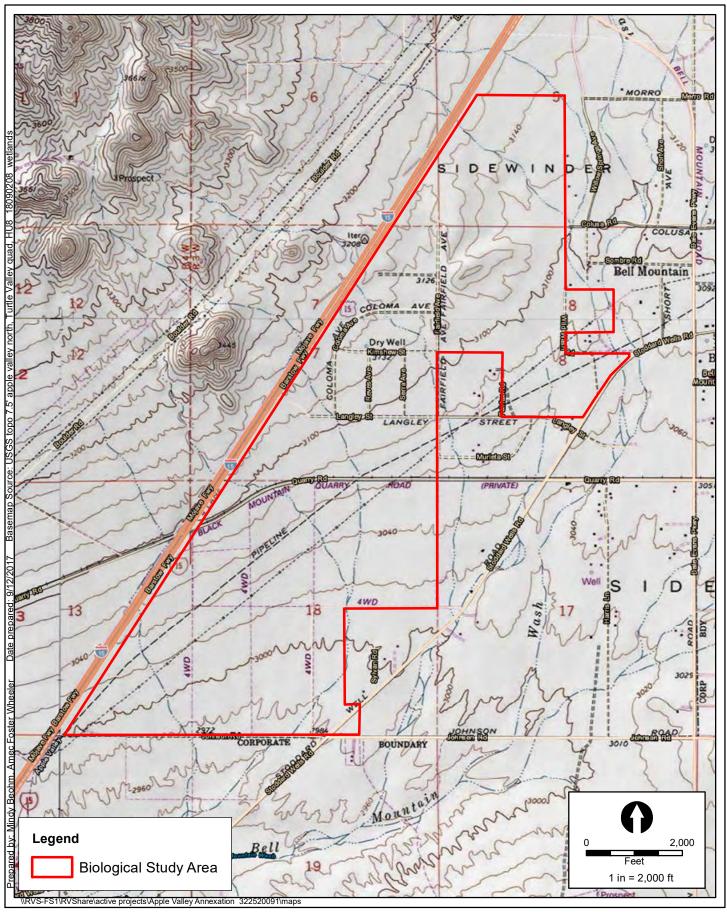
The Town of Apple Valley (Apple Valley or Town) proposes to annex 1,390 acres of a portion of currently unincorporated land located in the northwestern portion of Apple Valley, San Bernardino County, California (Figure 1). The proposed annexation has the potential to affect a variety of special-status biological resources that are protected and/or regulated by the California Fish and Wildlife (CDFW), United States Fish and Wildlife Service (USFWS), United States Army Corps of Engineers (USACE) and/or Regional Water Quality Control Board (RWQCB). Furthermore, the Town of Apple Valley is in the planning and development phase of implementing a regional Multiple-species Habitat Conservation Plan/Natural Communities Conservation (MSHCP/NCCP) that would address impacts to specified special-status biological resources that are known to occur, or have the potential to occur within the boundaries of the planning area of the forthcoming MSHCP/NCCP, which extends beyond the boundaries of the proposed annexation. This assessment, prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) addresses the potential impacts to the special-status biological resources present, or potentially present within the proposed annexation area, or "Biological Study Area (BSA)", and outlines the management considerations for those special-status resources. Until the MSHCP/NCCP is finalized and implemented, standard biological analysis, impact avoidance, minimization and mitigation for unavoidable project-related impacts to specialstatus biological resources will continue to be required.

#### 2.0 PROJECT LOCATION

The 1,390-acre area of unincorporated lands are generally located in the northwestern corner of the existing Town limits. The BSA is generally bounded by Morro Road to the north; portions of Johnson Road, Cordova Road and Langley Street to the south; portions of Fairfield and Vega to the east and Interstate 15 (I-15) to the west (Figure 2).









From north to south, the BSA is located within Sections 5, 7, 8, 13 and 18 of Township 6 North, Range 3 West, as shown on the USGS 7.5' Apple Valley North and Turtle Valley, California quadrangles.

The elevational range of the BSA is from approximately 2,983 feet (909 meters) above mean sea level (ASML) along the southeaster boundary (i.e., Johnson Road), to approximately 3,185 feet (971 meters) ASML along the northwestern boundary (i.e., I-15). The geographic coordinates for the approximate center of the BSA (i.e., junction of Langley Street and Reyes Avenue) are: 34°37'09.53" North latitude and 117°13'46.44" West longitude.

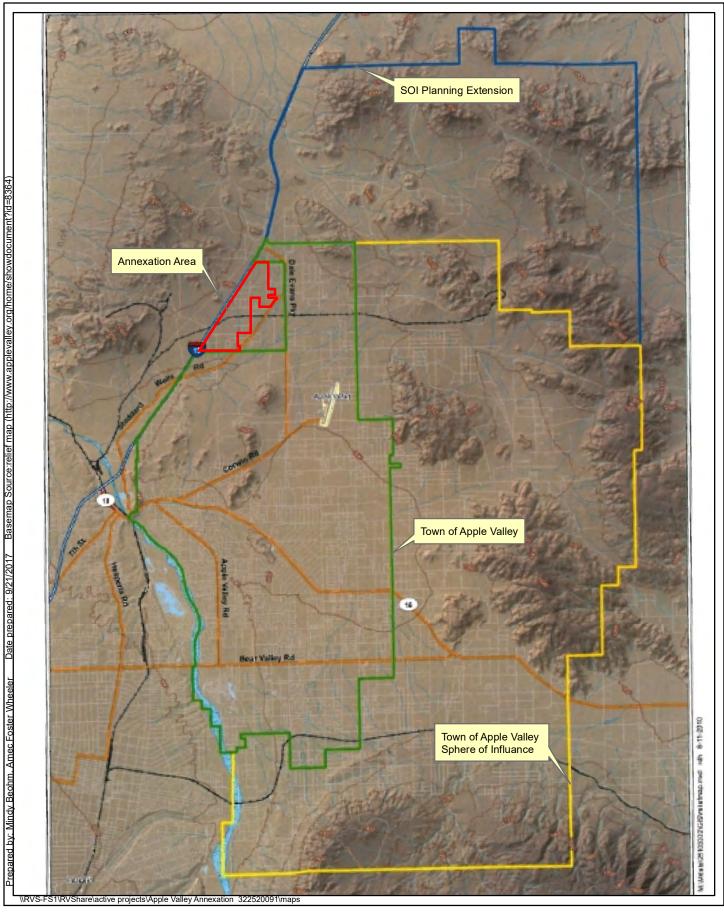
Once annexed, the area would fall within the proposed planning area of the forthcoming MSHCP/NCCP, following plan implementation. Although the MSHCP/NCCP has not identified specific areas proposed to be conserved for conservation, it is considered to be unlikely that any of the BSA area would be considered for long-term conservation for any of the proposed fifty-one (51) covered species as the zoning map for this area indicates that it is currently zoned for development and the area is cut off from adjacent undeveloped open space by the I-15 to the northwest and somewhat cut off by existing development to the north and east. For the purposes of this assessment, these assumptions are made.

#### 3.0 PROJECT DESCRIPTION & BACKGROUND

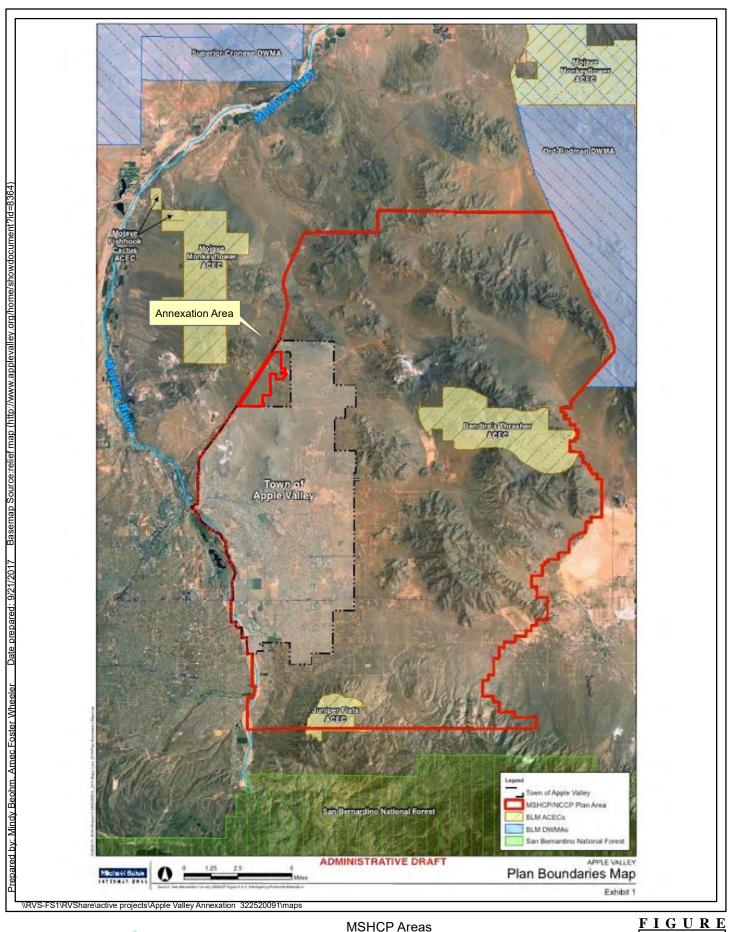
Apple Valley is located in the southwest portion of San Bernardino County, California, within the western Mojave Desert. It lies between the City of Victorville to the west, the City of Hesperia to the southwest, Lucerne Valley to the southeast; and Barstow to the north. The area is comprised of low, rolling foothills, a coarse sandy floor and small intermittent drainages. Topographically, the area gradually slopes from northwest to southeast.

The 1,390-acre BSA is located in an area that is referred by the Town of Apple Valley as the "Golden Triangle". Apple Valley proposes to annex this area and include it in the planning area of the MSHCP/NCCP. This area is currently comprised of undeveloped open space that is currently zoned for commercial, industrial, professional, residential and public facility development and surrounded on the three sides (north, south and east) by the existing town limits and I-15 along the northwestern boundary. Surrounding land uses generally consist of rural, single-family residential development and arterial roadways.

This study is intended to serve as a baseline assessing the special-status biological resources present within the proposed BSA.









MSHCP Areas



#### 3.1 Apple Valley Multiple Species Habitat Conservation Plan Background

Similar to the Apple Valley General Plan, the proposed MSHCP/NCCP is intended to serve as a guideline for future development. In general, qualifying applicants proposing to implement covered activities (e.g., grading, vegetation clearance, construction, etc.) would pay a standard, usually a per-acre development fee, which is used to implement conservation measures elsewhere (i.e., acquisition and management of conservation lands) or sometimes agree to conserve habitat on-site, to mitigate impacts resulting from the proposed covered activity, with some exceptions. While permitting covered activities, the MSHCP/NCCP will also steer Apple Valley's conservation efforts, preserving important open space areas, protecting habitat for thirteen (13) federal and/or state threatened and endangered species and thirty-eight (38) other special-status species that are known to occur within the area and maintaining the natural aesthetics and functions of the Mohave Desert.

The MSHCP/NCCP will identify and protect features and areas that warrant conservation; in addition to ensuring that future development within Apple Valley and its "Sphere of Influence", which include unincorporated County lands, is compliant with federal & state endangered species acts. Preliminary conservation objectives of the MSHCP/NCCP include:

- the conservation of covered species and natural communities in the planning area;
- the preservation of the diversity of the existing flora and fauna in the planning area;
- the minimization of "take" of covered species;
- the reduction of the likelihood of future species' listings;
- the implementation of species-specific and habitat-based goals and objectives for covered species, the establishment of goals and objectives for the determination of the locations, amount, quality and connectivity of habitat;
- the quantification of the extent of incidental take of listed species;
- and to provide a strategy for adaptive management and monitoring of covered species and natural communities in the planning area.

In addition to ensuring efforts are implemented to achieve the conservation goals and objectives, the MSHCP/NCCP is also intended to provide a streamlined permitting process for proposed development projects within the planning area. It will provide assurances to local government and citizens that their land use interests are protected while at the same time ensuring that covered projects will occur in a manner that supports the long term survival, recovery and sustainability of threatened, endangered and otherwise special-status species. Implementation of the MSHCP/NCCP will establish a new, more efficient and economical permitting process intended to significantly simplify development applications and increase the Town's control over the planning process, land use designations and the preservation of the Town's quality of life and its desert environment for the enjoyment of future generations.

Implementation of the MSHCP/NCCP is anticipated to cover and permit incidental take of the covered species, which include federally and state-listed as endangered and/or threatened species, species that are designated as "Species of Special Concern (SSC)" by the CDFW and



species managed as "Sensitive" by the BLM, resulting from potential development impacts to an estimated cumulative total of 23,000-27,800 acres of existing undeveloped open space within the town limits and 37,500 acres of impacts within the sphere of influence. Anticipated covered activities include development of residential housing, commercial and industrial development, agricultural activities, adaptive habitat management and monitoring activities in the planning area. In addition, other potential impacts include: operation and maintenance of existing public facilities (3,200 acres), construction of new capital improvements and public facilities (1,400 acres) and the construction operation and maintenance of future renewable energy projects (5,000 acres).

The MSHCP/NCCP planning area is located at the intersection of three significant wildlife linkages that are not only important to the region but also to the surrounding greater Mojave Desert. Therefore the MSHCP/NCCP anticipates the identification and conservation of wildlife linkages that would provide a connection between the proposed conservation areas in the MSHCP/NCCP planning area and approximately 2.4 million acres of other existing conserved habitats in the Mojave Desert. Conservation of wildlife linkages are intended to facilitate wildlife movement and gene flow over the broader regional landscape, making this region of the greater Mojave Desert more resilient to the effects of climate change by ensuring the long-term viability of a number of BLM-designated Areas of Critical Environmental Concern (ACECs). Nearby ACEC's include: the Mojave Monkeyflower ACEC to the northwest and northeast, the Mojave Fishhook Cactus ACEC to the northwest, the Bendire's Thrasher ACEC to the east and the Juniper Flats ACEC to the south. Additionally, the Superior-Cronese Desert Wildlife Management Area (DWMA) occurs to the north, the ORD-Rodman DWMA occurs to the northeast and the San Bernardino National Forest occurs to the south.

On 14 September 2010, a Memorandum of Understanding (MOU) was approved by the Town of Apple Valley and San Bernardino County. The MOU serves as a foundation for the Town and County to establish a clear, consistent and predictable permitting process and procedure for future economic development. Once implemented, approval of future development applications within the MSCHP/NCCP planning area (Figure 3) will be expedited and provide an economic benefit to the Town and County, all while ensuring conservation of covered species and their habitats is also addressed and achieved accordingly.

#### 3.2 Town of Apple Valley General Plan

The Town of Apple Valley General Plan General Plan describes the existing environment, provides a town history and establishes a hierarchy for land use policies, programs, goals, standards and guidelines for the development of the lands. The general plan also sets the guiding principles for residential, commercial and industrial structures; circulation; recreation; open space and conservation; safety; air quality; noise; and community design. More specifically, the Town's General Plan Land Use Map designates and distributes land use for parks and recreation purposes, biological resources, natural resources (i.e., energy and water), and areas worthy of special protection, in addition to lands available for future development.

In addition to the lands within Town limits, the General Plan includes areas identified for annexation. The BSA is located in an area, referred to as the "Golden Triangle," that has been identified and proposed for annexation.



#### 4.0 METHODS

#### 4.1 Literature Review

In preparation of the field assessment, a literature search was conducted to identify special-status biological resources known from the vicinity of the BSA. In the context of this report, and for the purpose of this report, vicinity is defined as areas within a 1-mile radius of the BSA.

The literature search included a review of the following documents:

- California Natural Diversity Data Base (CNDDB) RareFind 5 (CDFW 2017a)
- Special Animals List (CDFW 2017b)
- California Native Plant Society's (CNPS) Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2017a)
- Town of Apple Valley Multiple Species Habitat Conservation Plan (Town of Apple Valley 2017a)
- Town of Apple Valley General Plan (Town of Apple Valley 2017b)
- Town of Apply Valley NCCP Planning Agreement, Public Review Draft (Town of Apply Valley 2017c)
- Desert Renewable Energy Conservation Plan (DRECP) Gateway (Conservation Biology Institute 2017)
- United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2017a. The PLANTS Database. National Plant Data Team, Greensboro, NC 27401-4901 USA (USDA, NRCS 2017a)
- USDA, NRCS. Web Soil Survey (USDA, NRCS 2017a)
- United States Geological Survey (USGS) 7.5' Apple Valley North, Calif. and Turtle Valley, Calif. quadrangles (USGS 2015)
- National Wetlands Inventory (USFWS 2017)

Scientific nomenclature for this document follows standard reference sources: For plant communities, MSHCP/NCCP (Apple Valley 2017c); Sawyer et al (2009) and/or Holland (1986); for flora, Jepson eFlora (2015) and the USDA NRCS PLANTS Database (2017); for amphibians, reptiles, and mammals, CDFW (2016); and for birds, American Ornithologists Union (2016).

#### 4.2 Field Assessment

The field assessment of the BSA was conducted on 3 August 2017 by Amec Foster Wheeler senior biologist Michael D. Wilcox. Onsite suitable habitats were assessed based on the presence or absence of habitat components (e.g., soils, vegetation and topography) characteristic of the potentially occurring special-status biological resources determined by the literature review. The BSA was surveyed on foot to record pertinent field data and current site conditions. All flora and fauna observed or otherwise detected (e.g., through vocalizations, presence of scat, tracks, bones and/or remains) during the course of this assessment were identified and recorded in field notes and are included in Appendices 1 and 2. Dominant, co-dominant and co-occurring plant species observed were recorded in field notes and used in the determination of the onsite vegetation communities. Printed aerial photographs were used to aid in locating parcel boundaries and edges of plant communities. Plant species of uncertain identity were collected,



pressed and identified by Andrew C. Sanders, Herbarium Collections Manager, University of California, Riverside. General weather and site conditions were also recorded at the beginning and end of the survey. Temperatures and wind speeds were recorded with a handheld Kestrel 2000 anemometer. Percent cloud cover was estimated.

#### 5.0 RESULTS

#### **5.1** Weather Conditions

Weather conditions during the assessment were mild for this area at this time of year. Skies were cloudy with 100% cloud cover and light rain was intermittent. Temperatures ranged from 76 to 84 degrees Fahrenheit. Winds were calm with wind speeds of mostly 0-1 mph.

#### 5.2 Topography and Soils

The elevation of the BSA ranges from approximately 2,983 feet (909 meters) above mean sea level (ASML) along the southeastern boundary of the BSA, to approximately 3,185 feet (971 meters) ASML along the northwestern boundary.

The review of the on-site soils (based on the San Bernardino County, California, Mojave River Area, Soil Survey [USDA, NRCS Soil Survey Staff 2017b]) resulted in the following soil types mapped on the BSA (Figure 4):

- Cajon-Arizo Complex, 2-15% slopes. A very deep and somewhat excessively to excessively drained soil that formed in alluvium derived primarily from granitic material that occurs on alluvial fans (Tugel and Woodruff 1986).
- **Helendale-Bryman Loamy Sands, 2-15% slopes.** A very deep and well-drained soil that occurs on broad, smooth terraces and old alluvial fans with many areas dissected by deep intermittent drainages. This soil type was formed in alluvium, primarily derived from granitic parent material (Tugel and Woodruff 1986).
- Nebona-Cuddeback Complex, 2-9% slopes. A shallow (Nebona) to moderately (Cuddeback) deep soil that is well drained and occurs on terraces and old alluvial fans that have gravel desert pavement and are incised by moderately deep or shallow intermittent stream channels. Formed in alluvium and derived from mixed sources (Tugel and Woodruff 1986).
- Sparkhule-Rock Outcrop Complex, 15-50% slopes. A shallow and well-drained soil that formed in material weathered from hard volcanic rock and occurs on upland foothills with rock outcrops on the hills and ridges (Tugel and Woodruff 1986).
- Yermo-Kimberlina, Cool, Association, Sloping. A very deep and well-drained soil formed in gravelly and cobbly alluvium derived from mixed sources that occurs on broad, smooth alluvial fans or hills. Some areas exhibit very deep, intermittent drainages (Tugel and Woodruff 1986).

Soils and substrates on the BSA varied from undisturbed, naturally sandy areas, gravelly areas, loamy areas, rocky outcrops, disturbed surfaces and developed areas. Existing disturbed and developed areas consisted of paved and unimproved public and private roads, paved and unpaved trails, vacant cleared areas and a railroad easement (Appendix 3, Photographic Exhibits). Areas of illegal dumping were also observed. No sand dunes, hummocks, clay lenses, springs, seeps, or natural bodies of water were evident in the BSA.

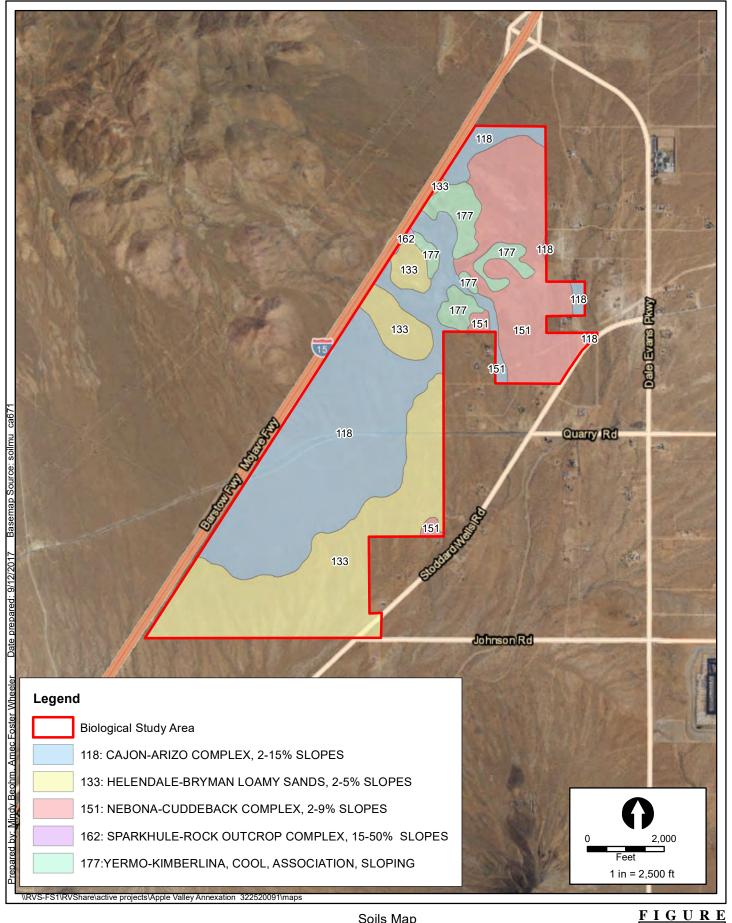


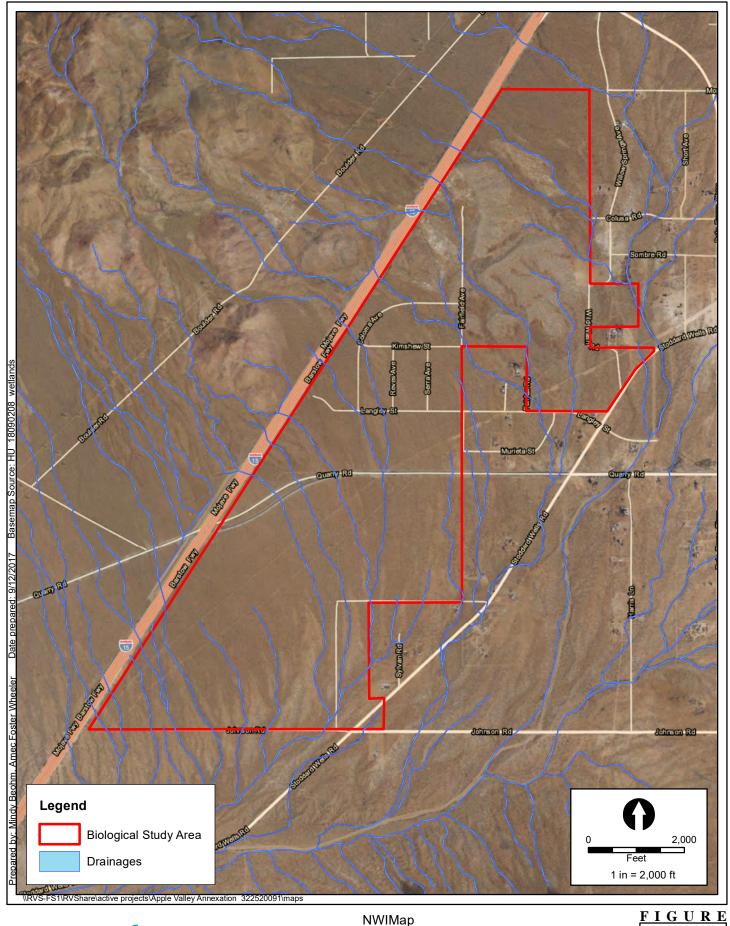
Review of the National Wetlands Inventory (NWI) indicated that approximately twenty-six (26) drainages, some of which are blue-line streams, traverse the BSA (Figure 5). A jurisdictional delineation was not conducted in the BSA for the proposed annexation, due to the programmatic nature of the analysis.

#### 5.3 Habitat Description and Environmental Setting

The BSA is located within the Mojave Desert biome in a portion of the western Mojave Desert in San Bernardino County, California. It appears to be on the dividing line between the "High Desert Plains and Hills" and the "Lucerne – Johnson Valley and Hills" ecological subsection of the California Mojave Desert (Miles et. al. 1998) and within the "South-Central Mojave" as illustrated by Webb et. al. (2009).

Although the immediate surrounding area is characterized by a patchwork-like distribution of undeveloped, relatively natural open space, more or less ranch-style, rural residential dwellings and a network of paved and unimproved roadways, the BSA remains largely undeveloped. The area is generally flat with some small rolling hills, rocky outcrops and intermittent small drainages (i.e., dry washes) present throughout. The paved and unimproved roadways bisect the BSA include, but are not limited to: Johnson Road, Quarry Road, Stoddard Wells Road, Langley Street, Fairfield Avenue, Coloma Avenue, Kimshew Street, Reyes Avenue, Serra Avenue, and Wild Wash Road. With the exception of adjacent habitat fragmentation resulting from the development of the existing residential dwellings, paved and unimproved roads, and the railroad easement; the open space within the BSA have received only relatively minor levels of disturbance, primarily as a result of off-road vehicular use, dumping and anthropogenic "edge effects". These "edge effects" include some vegetation clearing/weed abatement, establishment of dirt trails, trash deposition/accumulation and use by domestic pets (sign of domestic dogs observed).







#### 5.4 Vegetation

The dominant vegetation community within the BSA is *Larrea tridentata* Shrubland Alliance (Creosote bush scrub) (Sawyer et. al 2009). Holland (1986) refers to these vegetation communities as "Mojavean creosote bush scrub", the draft MSHCP/NCCP (2008) refers to it as "Mojave Mid-Elevation Mixed Desert Scrub", the draft planning agreement for the MSHCP/NCCP refers to it as "Sonora-Mojave Creosotebush-White Bursage Desert Scrub" (Town of Apple Valley 2017c) and the DRECP refers to it as "Mojave Desert Scrub" (Conservation Biology Institute 2017). (Figure 6).

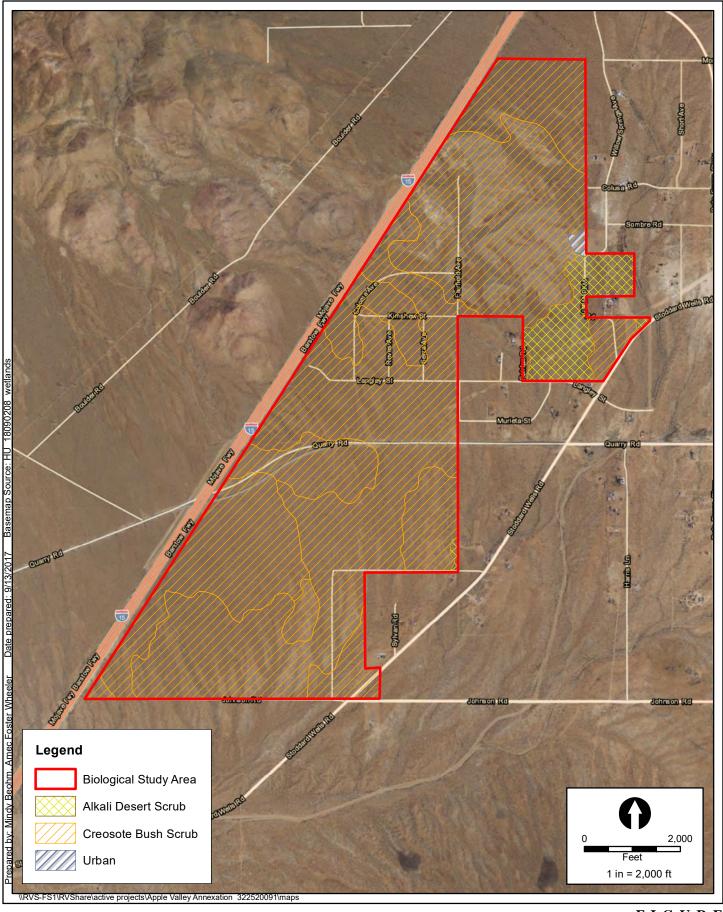
Dominant perennial plant species observed included: creosote bush (*Larrea tridentata*), California buckwheat (*Eriogonum fasciculatum*), white bur-sage (*Ambrosia dumosa*), cheesebush (*Ambrosia salsola*), rubber rabbitbrush (*Ericameria nauseosa*), peach thorn (*Lycium cooperi*), Nevada ephedra (*Ephedra nevadensis*), sandpaper plant (*Petalonyx thurberi*), bladder-sage (*Scutellaria mexicana*) and saltbush (*Atriplex* spp). Dominant annual plant species observed included: Saharan mustard (*Brassica tournefortii*), tumble mustard (*Sisymbrium* sp.), short-pod mustard (*Hirschfeldia incana*), redstem fillaree (*Erodium cicutarium*), cheat grass (*Bromus tectorum*), red brome (*Bromus madritensis* ssp. *rubens*), common Mediterranean grass (*Schismus barbatus*) and annual bur-sage (*Ambroisa acanthicarpa*). Sparse Mojave yucca (*Yucca schidigera*), Joshua tree (*Yucca brevifolia*), golden cholla (*Cylindropuntia echinocarpa*) and diamond cholla (*Cylindropuntia ramosissima*) were also intermittently present throughout the BSA.

No special-status vegetation communities were observed within the BSA. A list of the plant species (scientific and common names) observed is appended to this report (Appendix 1).

#### 5.5 Wildlife

Wildlife directly observed and/or detected otherwise (e.g., scat, bones, prints, feathers, burrows, etc.) within the BSA was not abundant or diverse, possibly due to the inclement (i.e., rainy) weather present during the assessment. A total of fourteen (14) vertebrates were detected. Most were identified to species; with the exception of some rodents, which were identified to class through the presence of burrows. Identification of the species of rodents occurring on the site would require a live trapping effort. Vertebrate fauna detected included: one (1) reptile, seven (7) birds and six (6) mammals. No fish or amphibians were detected. See Appendices 2 & 3 for a complete list of all wildlife species detected.

Western side-blotched lizard (*Uta stansburiana elgans*) was the only reptile detected. A variety of other species are expected to occur, however. These include, but are not limited to: desert banded gecko (*Coleonyx variegatus variegatus*), yellow-backed spiny lizard (*Sceloporus uniformis*), desert horned lizard (*Phrynosoma platyrhinos*), western zebra-tailed lizard (*Callisaurus draconoides rhodostictus*), Great Basin whiptail (*Aspidoscelis tigris tigris*), glossy snake (*Arizona elegans eburnata*), Great Basin gopher snake (*Pituophis catenifer deserticola*), western coachwhip (*Coluber flagellum testaceus*) and Mojave rattlesnake (*Crotalus scutulatus*).







The seven (7) common species of birds observed on-site included: mourning dove (*Zenaida macroura*), common poorwill (*Phalaenoptilus nuttallii*), common raven (*Corvus corax*), loggerhead shrike (*Lanius ludovicianus*), horned lark (*Eremophila alpestris*), European starling (*Sturnus vulgaris*) and house finch (*Haemorhous mexicanus*). Representative examples of other common bird species that are expected to occur include, but are not limited to: red-tailed hawk (*Buteo jamaicensis*), American kestrel (*Falco sparverius*), Gambell's quail (*Callipepla gambelii*), greater roadrunner (*Geococcyx californianus*), verdin (*Auriparus flaviceps*) and Costa's hummingbird (*Calypte costae*).

The six (6) mammals detected included: black-tailed jackrabbit (*Lepus californicus*), desert woodrat (*Neotoma lepida*), coyote (*Canis latrans*), California ground squirrel (*Otospermophilus beecheyi*), white-tailed antelope squirrel (*Ammospermophilus leucurus*) and other small rodents (species undetermined but rodent burrows present). Other small mammals, particularly rodents, occur on the site as small mammal burrows were observed; however the species that are present cannot be conclusively determined without a more intensive trapping effort. Although not observed, bats also are likely foraging over the site as suitable roosting habitat is present nearby within rocky hillsides. Domestic mammals (i.e., dogs, cats and livestock) are also likely kept by residents surrounding the BSA. Larger carnivores such as the kit fox (*Vulpes macrotis*), gray fox (*Urocyon cinereoargenteus*) and bobcat (*Lynx rufus*) were not detected but have the potential to occur in the BSA as well.

It should be noted that relatively short-term biological studies of this nature are often limited by the timing of field surveys, the seasonality of annual plants, the migratory habits of many birds, the fossorial and nocturnal habits of many invertebrates, reptiles and mammals. Knowledge of habitat associations, natural history, seasonality, and distribution is essential in the assessment of the potential for occurrence of the various sensitive plants and animals known to occur throughout the various areas of San Bernardino County. For these reasons, other common and special status species that were not observed onsite may also have the potential to occur based on their geographic distribution, habitat preferences, and the regional location of the site. Tables 1 through 5 below summarize information on sensitive species known to occur in the vicinity of the BSA, including the status of each species based on the best available information and the collective expertise of Amec Foster Wheeler biologists.

### 5.6 Special-Status Species

Plant or animal taxa may be considered "sensitive" or as having "special status" due to declining populations, vulnerability to habitat change, or because they have restricted ranges. Some are listed as threatened or endangered by the USFWS or by the CDFW and are protected by the federal and state Endangered Species acts and the NPPA. Others have been identified as sensitive or as special-status species by the USFWS, the BLM, the CDFW, or by private conservation organizations, including the CNPS.

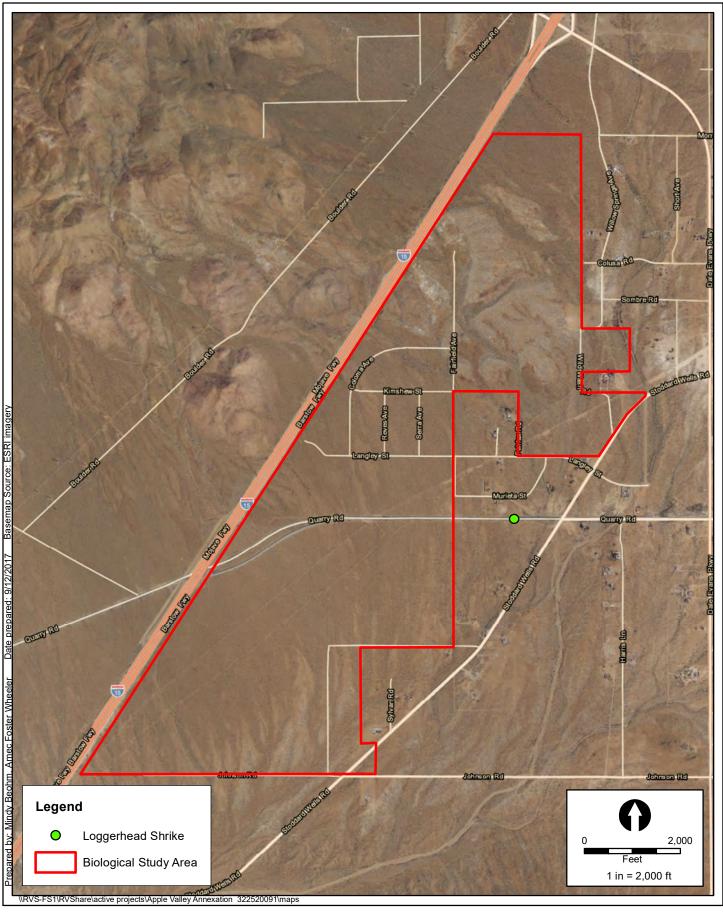
The review of the CNDDB, CNPS Online Inventory of Rare Plants, draft MSHCP documents, other biological reports from the vicinity and consultation with other experienced biologists/naturalists resulted in the identification of fifty-one (51) special-status biological resources known to occur in the vicinity (within an approximate 1-mile radius) of the BSA. These included: sixteen (16) plants, two (2) invertebrates, one (1) fish, two (2) amphibians, three (3) reptiles, nineteen (19) birds and eight (8) mammals. These include federal and state-listed



species, California Species of Special Concern (SSC), BLM sensitive species and plant species designated as rare and/or imperiled by the CNPS. All but one (1) of these, tricolored blackbird (*Agelaius tricolor*), are proposed to be covered under and conserved by the forthcoming MSHCP/NCCP. Tables 1 through 6 provide a complete list of the special-status species, their associated legal status, habitat associations and their respective on-site occurrence potentials.

The Desert Renewable Energy Conservation Plan (DRECP) Gateway modeled habitat for Mojave monkeyflower (*Mimulus mohavenis*), desert tortoise (*Gopherus agassizii*), golden eagle (*Aquila chrysaetos*), burrowing owl (*Athene cunicularia*), Bendire's thrasher (*Toxostoma bendirei*), tricolored blackbird (*Agelaius tricolor*), pallid bat (*Antrozous pallidus*), Townsend's big-eared bat (*Corynorhinus townsendii*), desert bighorn sheep (*Ovis canadensis nelsoni*) and Mohave ground squirrel (*Xerospermophilus mohavensis*) within the BSA (Conservation Biology Institute 2017).

One (1) special-status species, loggerhead shrike, was observed perched on an electrical transmission line adjacent to a portion of the BSA, then flew across the site during the field assessment (Figure 7). This species is not listed as threatened or endangered by the USFWS or CDFW, but is designated as a SSC by the CDFW. It is also a species proposed to be covered and conserved by the MSHCP/NCCP. Suitable nesting (i.e., moderately sized shrubs) and foraging habitat for this species is present throughout the BSA. For these reasons, Amec Foster Wheeler considers there to be a high potential for loggerhead shrike to nest in the BSA.





Loggerhead Shrike Map

Apple Valley Annexation Project

FIGURE



Table 1. Special Status Plants

Species	Status	Habitat	Probability
Acanthoscyphus parishii var. goodmaniana Cushenbury oxytheca	F: END C: None CNPS: List 1B.1 Global rank: G4?T1 State rank: S1 MSHCP/NCCP: Yes*	Sandy, carbonate soils (talus) in pinyon and juniper woodland; 1219- 2377 m (3999-7799 ft.); B: May-Oct	Absent (habitat lacking, BSA below elevational range of species)
Arabis dispar Pinyon rockcress	F: None C: None CNPS: List 2B.3 Global rank: G3 State rank: S3 MSHCP/NCCP: Yes*	Granitic, gravelly soils in Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland; 1200-2540 m (3937-8333 ft.); B: Mar-Jun	Absent (BSA below elevational range of species)
Boechera shockleyi Shockley's rockcress	F: None C: None CNPS: List 2B.2 Global rank: G3 State rank: S2 MSHCP/NCCP: Yes*	Carbonate or quartzite, rocky or gravelly soils in Pinyon and juniper woodland; 875-2310 m (2871-7579 ft.); B: May-Jun	Absent (habitat lacking)
Camissonia boothii ssp. boothii Booth's evening primrose	F: None C: None CNPS: List 2B.3 Global rank: G5T4 State rank: S2 MSHCP/NCCP: Yes*	Joshua tree woodland, pinyon-juniper woodland, sandy areas; 900-2,400 m (2,953–7,874 ft.); B: Apr- Sept.	Absent (habitat lacking)
Canbya candida white pygmy-poppy	F: None C: None CNPS: List 4.2 Global rank: G3G4 State rank: S3S4 MSHCP/NCCP: <b>Yes*</b>	Gravelly, sandy & granitic soils in Joshua tree woodland, Mojavean desert scrub & Pinyon and juniper woodland; 725- 1250 m. (2379–4101 ft.); B: Mar-Jun	Low (habitat suitable)
Cymopterus deserticola Desert cymopterus	F: None C: None CNPS List: 1B.2 Global Rank: G2 State Rank: S2 MSHCP/NCCP: Yes*	Sandy Mojavean Desert scrub, Joshua tree woodland sandy; 630-1500 m (2067-4921 ft.); B: Mar- May	Low-Moderate (habitat suitable)
Deinandra mohavensis Mojave tarplant	F: None C: <b>END</b> CNPS List: 1B.3 Global Rank: G2 State Rank: S2 MSHCP/NCCP: <b>Yes*</b>	Mesic chaparral, coastal scrub, riparian scrub; 640- 1600 m (2100-5249 ft.): B: Jun-Oct	Absent (mesic habitat lacking)
Diplacus mohavensis Mojave monkeyflower	F: None C: None CNPS: List 1B.2 Global rank: G2 State rank: S2.2 BLM sensitive MSHCP/NCCP: Yes*	Joshua tree woodland, Mojavean desert scrub; dry sandy and/or gravelly washes along the Mojave River, 600-1200 m (1969- 3937 ft.): B: Apr-Jun	Low-Moderate (habitat suitable, modeled habitat present)



 Table 1.
 Special Status Plants

Species	Status	Habitat	Probability
Dudleya abramsii ssp. affinis San Bernardino Mountains dudleya	F: None C: None CNPS: List 1B.2 Global rank: G4T2 State rank: S2 MSHCP/NCCP: <b>Yes*</b>	Granitic, quartzite and/or carbonate soils in pebble (Pavement) plain, pinyon & juniper woodland & upper montane coniferous forest; 1250-2600 m (4101-8530 ft.); B: Apr-Jul	Absent (habitat lacking, BSA below elevational range of species)
Eriogonum ovalifolium var. vineum Cushenbury buckwheat	F: END C: None CNPS: List 1B.1 Global rank: G5T1 State rank: S1 MSHCP/NCCP: Yes*	Carbonate soils in Joshua tree woodland, Mojavean desert scrub, pinyon & juniper woodland; 1400- 2440 m (4593-8005 ft.): B: May-Aug	Absent (BSA below elevational range of species)
Eriophyllum mohavense Barstow woolly sunflower	F: None C: None CNPS List: 1B.2 Global Rank: G2 State Rank: S2 MSHCP/NCCP: <b>Yes*</b>	Chenopod scrub, Mojavean desert scrub, playas; 500-960 m (1640- 3150 ft.): B: Mar-May	<b>Low-Moderate</b> (habitat suitable)
Mentzelia tridentata creamy blazing star	F: None C: None CNPS List: 1B.3 Global Rank: G3 State Rank: S3 MSHCP/NCCP: Yes*	Mojavean Desert scrub; rocky, gravelly, sandy; 700- 1175 m (2297-3855 ft): B: Mar-May	Low-Moderate (habitat suitable)
Pediomelum castoreum Beaver Dam breadroot	F: None C: None CNPS: List 1B.2 Global Rank: G3 State Rank: S2 MSHCP/NCCP: <b>Yes*</b>	Sandy soils, washes, and roadcuts in Joshua Tree woodland, Mojavean desert scrub; 610-825m (2,001-2,707 ft); B: Apr-May	Low-Moderate (habitat suitable)
Saltugilia latimeri Latimer's woodland-gilia	F: None C: None CNPS: List 1B.2 Global Rank: G2 State Rank: S2 MSHCP/NCCP: <b>Yes*</b>	Rocky, sandy, often granitic, sometimes washes in chaparral, Mojavean desert scrub, pinyon and juniper woodland. 400-1900 m (1312-6234 ft.); B: Mar-Jun	Low-Moderate (habitat suitable)
Scutellaria bolanderi ssp. austromontana Southern skullcap	F: None C: None CNPS: List 1B.2 Global rank: G4T3 State rank: S3 MSHCP/NCCP: <b>Yes*</b>	Chaparral, cismontane woodland, lower montane coniferous forest/mesic areas; 600-2,000 m (1,969- 6,562 ft.)	Absent (habitat lacking)



**Table 1. Special Status Plants** 

Species	Status	Habitat	Probability
Symphyotrichum defoliatum San Bernardino aster	F: None C: None CNPS: List 1B.2 Global rank: G3 State rank: S2 MSHCP/NCCP: <b>Yes*</b>	Cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grassland (vernally mesic), near ditches, streams & springs; 2-2040 m (6.5-6,693 ft.)	Absent (habitat lacking)

 Table 2.
 Special Status Invertebrates

Species	Status	Habitat	Probability
Helminthoglypta mohaveana Victorville shoulderband	F: None C: None Global rank: G1 State rank: S1 MSHCP/NCCP: Yes*	granite rocky outcrops, base of rocky cliffs along Mojave River	Absent (Rocky habitat extremely limited in BSA; BSA not immediately adjacent to Mojave River)
Plebulina emigdionis San Emigdio blue	F: None C: None Global rank: G1G2 State rank: S1S2 MSHCP/NCCP: <b>Yes</b> *	Desert canyons and along riverbeds, known from Mojave River in vic. of Victorville	Absent (habitat lacking in BSA)

Table 3. Special Status Fish

Species	Status	Habitat	Probability
Siphateles bicolor mohavensis Mojave tui chub	F: <b>END</b> C: <b>END</b> , <b>FP</b> Global Rank: G4T1 State Rank: S1 MSHCP/NCCP: <b>Yes*</b>	Historically from deep pools and slough-like areas of the Mojave River. It now only occurs in highly modified refuge sites in San Bernardino County.	Absent (habitat lacking in BSA)

Table 4. Special Status Amphibians & Reptiles

Species	Status	Habitat	Probability
Bufo californicus arroyo toad	F: END C: SSC Global Rank: G2G3 State Rank: S2S3 MSHCP/NCCP: Yes	high-order streams, rivers, drainages; usually with sandy banks and bottoms	Absent (habitat lacking in BSA)
Clemmys marmorata pallida southwestern pond turtle	F: None C: SSC Global Rank: G3G4 State Rank: S3 Other: BLM sensitive, USFS sensitive MSHCP/NCCP: Yes	Permanent or near permanent waters in varied habitats, to 8000'	Absent (habitat lacking in BSA)



Table 4. Special Status Amphibians & Reptiles

Species	Status	Habitat	Probability
Gopherus agassizi desert tortoise	F: <b>THR</b> C: <b>THR</b> Global: G3 State: S2S3 MSHCP/NCCP: <b>Yes*</b>	Various desert communities and habitats (Mojavean creosote bush scrub, Joshua tree woodland, saltbush scrub); washes, arroyos, bajadas, rocky hillsides, open flat desert	Moderate-High (habitat suitable, modeled habitat present)
Phrynosoma blainvillii coast horned lizard	F: none C: SSC Global: G3G4 State: S3S4 Other: BLM Sensitive MSHCP/NCCP: <b>Yes*</b>	Variety of scrub and woodland habitats, grasslands; loose soils	Absent (habitat lacking, only from along Mojave River and immediately adjacent areas in vicinity)
Rana (aurora) draytonii California red-legged frog	F: THR C: SSC Global: G2G3 State: S2S3 MSHCP/NCCP: Yes*	Requires sources of permanent water, usually deep pools or ponded areas in foothill and lowland areas.	Absent (presumed extinct from segment of Mojave River in planning area; habitat lacking in BSA)

Table 5. Special Status Birds

Species	Status	Habitat	Probability
Accipter cooperii Cooper's hawk (nesting)	F: MBTA C: WL Global: G5 State: S4 MSHCP/NCCP: <b>Yes*</b>	Forest and woodlands, landscaped suburbs with ample trees. Nests in woodlands and forests; occurs in many habitats in winter	Nesting: Absent (habitat lacking)  Foraging: Moderate- High (primarily during migration)
Accipter striatus sharp-shinned hawk (nesting)	F: MBTA C: WL Global: G5 State: S4 MSHCP/NCCP: <b>Yes*</b>	Forest and woodlands, landscaped suburbs with ample trees. Nests in woodlands and forests; occurs in many habitats in winter	Nesting: Absent (habitat lacking)  Foraging: Moderate- High (primarily during migration)
Agelaius tricolor tricolored blackbird	F: MBTA C: CAN END Global: G2G3 State: S1S2 Other: BLM Sensitive MSHCP/NCCP: No	Freshwater cattail, tule and bulrush marshes; forages in agricultural and fallow fields and livestock grazing areas.	Nesting: Absent (habitat lacking)  Foraging: Absent (habitat lacking)



Table 5. Special Status Birds

Species	Status	Habitat	Probability
Aquila chrysaetos golden eagle (nesting & wintering)	F: MBTA, BCC, BGEPA C: FP, WL Global: G5 State: S3 Other: BLM Sensitive MSHCP/NCCP: <b>Yes*</b>	Open and semi-open areas with native vegetation. Primarily in mountains (up to 12,000 feet), around canyons, rimrock terrain, and riverside cliffs and bluffs. Nest, cliffs, steep escarpments and transmission line towers in grassland, chapparal, shrubland, forest, and other vegetated areas. Avoids developed areas and uninterrupted stretches of forest.	Nesting: Absent (habitat lacking)  Foraging: Moderate (habitat suitable, modeled habitat present)
Asio otus long-eared owl (nesting)	F: MBTA C: SSC Global: G5 State: S3? MSHCP/NCCP: Yes*	Riparian bottomlands grown to tall willows & cottonwoods; also, belts of live oak paralleling stream courses	Nesting: Absent (habitat lacking in BSA) Foraging: Absent (same as above)
Athene cunicularia burrowing owl (nesting & wintering)	F: MBTA, BCC C: SSC Global: G4 State: S3 Other: BLM sensitive MSHCP/NCCP: Yes*	Open, dry annual or perennial grassland, deserts & scrublands characterized by low-growing vegetation. Burrow sites essential.	Nesting: Moderate (habitat suitable, modeled habitat present)  Foraging: Moderate- High (Same as above. May also nest on adjacent properties and forage on- site)
Buteo swainsoni Swainson's hawk (nesting)	F: MBTA, BCC C: <b>THR</b> Global: G5 State: S3 Other: BLM Sensitive MSHCP/NCCP: <b>Yes*</b>	Grasslands, plains, agricultural areas. Nests in tall trees (including Joshua trees) near waterways.	Nesting: Absent (species rare in area)  Foraging: Low (migration only)
Coccyzus americanus occidentalis western yellow-billed cuckoo (nesting)	F: THR C: END Global: G5T2T3 State: S1 Other: BLM Sensitive MSHCP/NCCP: Yes*	In CA, mature riparian forest with dense cover and surface water.	Nesting: Absent (habitat lacking in BSA)  Foraging: Absent (same as above)
Empidonax trailii extimus southwestern willow flycatcher (nesting)	F: END C: END (full species) Global: G5T2 State: S1 MSHCP/NCCP: <b>Yes*</b>	Willow riparian scrub and riparian forest	Nesting: Absent (habitat lacking in BSA)  Foraging: Low (migration only)
Falco mexicanus prairie falcon (nesting)	F: MBTA, BCC C: WL Global: G5 State: S4 MSHCP/NCCP: <b>Yes*</b>	Breeding sites located on cliffs, but forages far afield.	Nesting: Absent (habitat lacking)  Foraging: High (hills and mountains in vicinity may provide suitable habitat; species is known to forage widely)



 Table 5.
 Special Status Birds

Species	Status	Habitat	Probability
Icteria virens yellow-breasted chat (nesting)	F: MBTA, BCC C: SSC Global: G5 State: S3 MSHCP/NCCP: <b>Yes*</b>	In the arid regions of the southwest nests in shrubby riparian habitats along rivers.	Nesting: Absent (habitats lacking in BSA)  Foraging: Low (migration only)
Lanius ludovicianus loggerhead shrike (nesting)	F: MBTA, BCC C: SSC Global: G4 State: S4 MSHCP/NCCP: <b>Yes*</b>	Breeds mainly in shrublands or open woodlands with some grass cover & areas of bare ground. Requires tall plants or structures for hunting & vocalization perches and open areas of short grasses, forbs, or bare ground for hunting.	Nesting: High (suitable habitat present) Foraging: Occurs (observed)
Myiarchus tyrannulus brown-crested flycatcher (nesting)	F: MBTA C: WL Global: G5 State: S3 MSHCP/NCCP: Yes*	In CA, tall sycamores or cottonwoods along streams, in lowlands or canyons.	Nesting: Absent (habitat lacking)  Foraging: Absent (habitat lacking)
Piranga rubra summer tanager (nesting)	F: None C: SSC Globa Rank: G5 State Rank: S1 MSHCP/NCCP: <b>Yes*</b>	In the southwest, nests in low-elevation willow and cottonwood woodlands & in higher-elevation mesquite and saltcedar stands.	Nesting: Very Low (sparse Saltcedar present)  Foraging: Low (Same as above and during migration)
Pyrocephalus rubinus vermilion flycatcher (nesting)	F: MBTA, BCC C: SSC (nesting) Global: G5 State: S2S3 MSHCP/NCCP: <b>Yes*</b>	Usually associated with desert riparian habitats, forages from open perch. Also known to nest in landscaped, ornamental areas such as parks, golf courses and possibly residential.	Nesting: Absent (habitat lacking in BSA) Foraging: Low (Same as above)
Setophaga petechial yellow warbler (nesting)	F: None C: SSC Globa Rank: G5 State Rank: S3S4 MSHCP/NCCP: <b>Yes*</b>	Riparian forests, woodlands & thickets.	Nesting: Absent (habitat lacking in BSA) Foraging: Low (migration only)
Toxostoma bendirei Bendire's thrasher	F: MBTA, BCC C: SSC Global Rank: G4G5 State Rank: S3 Other: BLM Sensitive MSHCP/NCCP: Yes*	Desert, especially areas of tall vegetation, cholla cactus, creosote bush and yucca, and in juniper woodland	Nesting: Low (modeled habitat present but limited) Foraging: Low (same as above)



 Table 5.
 Special Status Birds

Species	Status	Habitat	Probability
Toxostoma lecontei Le Conte's thrasher	F: MBTA, BCC C: SSC (San Joaquin population only) Global Rank: G4 State Rank: S3 Other: BLM sensitive MSHCP/NCCP: <b>Yes*</b>	Primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats; commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground	Nesting: Low (habitat suitable but limited)  Foraging: Low (habitat suitable)
Vireo bellii pusillus least Bell's vireo (nesting)	F: END C: END Global Rank: G5T2 State Rank: S2 MSHCP/NCCP: Yes*	Riparian vegetation in the vicinity of water or in dry river bottoms; below 2000 feet elevation. Nests usually in willow, <i>Baccharis</i> , or mesquite.	Nesting: Absent (habitat lacking)  Foraging: Absent (habitat lacking)

Table 6. Special Status Mammals

Species	Status	Habitat	Probability
Antrozous pallidus pallid bat	F: None C: SSC Global: G5 State: S3 Other: BLM sensitive, WBWG: H MSHCP/NCCP: Yes*	Arid or semi-arid areas; usually associated with rocky, mountainous areas near water. Also found over open, sparsely vegetated grasslands, appear to prefer to forage in the open.	Roosting: Absent (habitat lacking) Foraging: High (may roost nearby)
Chaetodipus fallax pallidus pallid San Diego pocket mouse	F: None C: SSC Global: G5T3T4 State: S3S4 MSHCP/NCCP: <b>Yes*</b>	Desert border areas in desert wash, desert scrub, desert succulent scrub, pinon-juniper, etc. Sandy herbaceous areas usually in association with rocks or coarse gravel.	<b>Low</b> (habitat marginal)
Corynorhinus townsendii Townsend's big-eared bat	F: None C: SSC Global: G3G4 State: S2 Other: BLM sensitive, WBWG: H MSHCP/NCCP: Yes*	Variety of habitats near caves or other roosting areas; found from montane coniferous forest to arid desert scrub. Prefers large open areas for roosting.	Roosting: Absent (habitat lacking) Foraging: High (may roost nearby)
Lasiurus cinereus hoary bat	F: None C: None Global: G5 State: S4 Other: WBWG: M MSHCP/NCCP: <b>Yes*</b>	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for foraging. Roosts in dense foliage of medium to large tree	Roosting: Low (trees limited) Foraging: High (may roost nearby)



Table 6. Special Status Mammals

Species	Status	Habitat	Probability
Microtus californicus mohavensis Mohave River vole	F: None C: SSC Global: G5T1 State: S1 MSHCP/NCCP: Yes*	Damp bottomland of the Mojave River, including riparian forest and freshwater marsh	Absent (habitat lacking)
Ovis canadensis nelsoni desert bighorn sheep	F: None C: FP Global: G4T4 State: S3 MSHCP/NCCP: <b>Yes</b> *	Open, rocky, steep areas with available water and herbaceous forage	Absent (habitat lacking)
Vulpes macrotis arsipus desert kit fox	F: None C: Protected furbearing mammal Global: None State: None MSHCP/NCCP: Yes*	Scrub habitats in the Mojave Desert and Colorado Desert	Moderate (suitable habitat present, BSA within geographic range)
Xerospermophilus mohavensis Mohave ground squirrel	F: none C: <b>THR</b> Global: G2G3 State: S2S3 MSHCP/NCCP: <b>Yes</b> *	Creosote bush scrub, saltbush scrub; restricted to a small portion of the Mojave Desert	Low (suitable habitat present, BSA at edge of geographic range)

<sup>\*</sup> Species proposed to be conserved and covered under the MSHCP/NCCP.

#### Definitions of status designations and occurrence probabilities for Tables 1-5

#### Definitions of occurrence probability:

**Occurs**: Observed in the BSA by Amec Foster Wheeler personnel or recently reported by another credible source. **High**:Observed in similar habitat in region by qualified biologists, or habitat on the BSA is a type often utilized by the species and the BSA is within the known range of the species.

**Moderate**: Reported sightings in surrounding region, or BSA is within the known range of the species and habitat on the BSA is a type occasionally used by the species.

**Low**:PPA/APE is within the known range of the species but habitat on the BSA is rarely used by the species **Very Low**:Habitat is of marginal suitability and/or BSA is at the edge of species known range or distribution.

**Absent**:A focused study failed to detect the species, suitable habitat not present, or BSA is outside the geographic distribution of the species.

**Unknown**: No focused surveys have been performed in the region, and the species' distribution and habitat are poorly known.

#### MSHCP/NCCP designations

Yes: Proposed to be conserved and covered by the plan No: Not proposed to be conserved or covered by the plan

**Federal designations**: (F = federal Endangered Species Act or USFWS designations)

END: Federally listed, Endangered THR: Federally listed, Threatened CAN: Candidate for Federal listing MBTA: Migratory Bird Treaty Act

BGEPA: Bald & Golden Eagle Protection Act

BCC: Birds of Conservation Concern

BLM sensitive: Bureau of Land Management Sensitive

USFS sensitive: U.S. Forest Service Sensitive

None: No designation

<u>State designations</u>: (C = California Endangered Species Act or CDFW designations)

END: State listed, Endangered THR: State listed, Threatened CAN: Candidate for State listing RARE: State listed, Rare



FP: Fully Protected Species

SSC: Species of Special Concern

WL: Watch List Species

**CDFW State (S) Rankings** are a reflection of the overall condition of a resource throughout its range in California. The number after the decimal point represents a threat designation attached to the assigned rank:

S1 = Critically Imperiled. Less than (<) 6 Element Occurrences (EOs) OR < 1,000 individuals OR < 2,000 acres

**S1.1** = very threatened

S1.2 = threatened

\$1.3 = no current threats known

**S2** = Imperiled. 6-20 EOs OR 1,000-3,000 individuals OR 2,000-10,000 acres

**S2.1** = very threatened

S2.2 = threatened

\$2.3 = no current threats known

**S3** = Vulnerable. 21-80 EOs OR 3,000-10,000 individuals OR 10,000-50,000 acres

**S3.1** = very threatened

S3.2 = threatened

\$3.3 = no current threats known

**S4** = Apparently Secure. Uncommon but not rare in the state; some cause for long-term concern.

**S5** = Secure. Common, widespread, and abundant in the state.

**SH** = All known California sites are historical, not extant

**CDFW** *Global (G) Rankings* are a reflection of the overall status of an element throughout its global range. Both Global and State rankings are represented with a letter and number score that reflects a combination of Rarity, Threat, and Trend factors, with weighting being heavier on Rarity than the other two.

#### **Species or Natural Community Levels:**

**G1** = Critically Imperiled. At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

**G2** = Imperiled. At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

**G3** = Vulnerable. At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

**G4** = Apparently Secure. Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**G5** = Secure. Common; widespread and abundant.

**Subspecies Leves:** Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies.

#### California Native Plant Society (CNPS) designations:

#### Primary Categories

LIST 1A: Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere

LIST 1B: Plants Rare. Threatened, or Endangered in California and Elsewhere

LIST 2A: Plants Presumed Extirpated in California, But Common Elsewhere

LIST 2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

LIST 3: Plants About Which More Information is Needed - A Review List

LIST 4: Plants of Limited Distribution - A Watch List

#### Subdivisions within Categories

0.1: Seriously threatened in California

0.2: Moderately threatened in California

0.3: Not very threatened in California

#### 6.0 DISCUSSION

#### 6.1 Discussion of the Special-status Species Tables

Of the fifty-one (51) special-status species reported from the vicinity of, or having modeled habitat in the BSA, thirty-four (34) are considered to be absent from the site due to a lack of suitable habitats and/or the location of the BSA outside of the species geographic range (Tables 1 through 6). Representative examples include, but are not limited to: Booth's evening primrose (*Camissonia boothii* ssp. *boothii*), Mojave tarplant (*Deinandra mohavensis*), San Bernardino aster



(Symphyotrichum defoliatum), Victorville shoulderband (Helminthoglypta mohaveana), Mojave tui chub (Siphateles bicolor mohavensis), arroyo toad (Anaxyrus californicus), California red-legged frog (Rana [aurora] draytonii), southwestern pond turtle (Clemys marmorata pallida), coast horned lizard (Phrynosoma blainvillii), tricolored blackbird, brown-crested flycatcher (Myiarchus tyrannulus), western yellow-billed cuckoo (Coccyzus americanus occidentalis), least Bell's vireo (Vireo bellii pusillus) and Mohave river vole (Microtus californicus mohavensis). These species will not be discussed further. Although generally considered to be absent, due to a lack of nesting or roosting habitats, some of the special-status species have the potential to nevertheless occur on-site during migration and/or during the winter, for foraging purposes only. Representative examples include: Cooper's hawk (Accipter cooperii), golden eagle, Swainson's hawk (Buteo swainsoni), prairie falcon (Falco mexicanus), pallid bat and Townsend's big-eared bat. These species will also not be discussed further as their potential occurrence is considered to be transient and/or intermittent, not resident. With the exception of obvious measures to prevent direct mortality, conservation and/or management considerations and actions are generally not required for foraging/wintering species. Even if these above referenced species that are generally considered to absent from the site were to occur on-site, all but one (1), tricolored blackbird, are proposed to be covered under and conserved by the MSHCP/NCCP. Therefore, impacts to these species, would be fully mitigated through participation in and compliance with the forthcoming plan.

Seventeen (17) special-status species known from the area have at least some potential (low to high) to occur in the BSA. Representative examples include: desert cymopterus, Mojave monkeyflower, desert tortoise, burrowing owl, loggerhead shrike, desert kit fox (*Vulpes macrotis arsipus*) and Mohave ground squirrel. These species have the potential to either grow or reside (i.e., nest, breed, roost and live) on-site, either permanently or seasonally due to the presence of suitable habitat and the location of the BSA within the geographic and elevational ranges of these species. All of the species are proposed to be covered under the MSHCP/NCCP. Participation in, and compliance with the MSHCP/NCCP, once implemented, would generally mitigate any future project-related impacts to these species. Additional management actions and measures, however, may be required for some of these species to avoid and/or minimize impacts. These species will not be discussed further in regards to the MSHCPNCCP, with the exception of those species that are likely to require further actions.

Impacts to special-status biological resources that are not proposed to be covered under the MSHCP/NCCP must be addressed, avoided and/or minimized to less than significant levels per the applicable federal and state endangered species acts, National Environmental Policy Act (NEPA) and/or California Environmental Quality Act (CEQA) as participation in the MSHCP/NCCP would not provide coverage or contribute to conservation efforts. Representative examples include, but are not limited to: jurisdictional areas and nesting bird species protected under the MBTA.

### 6.1.1 Special-status Species Covered under the MSHCP/NCCP Potentially Requiring Additional Impact Avoidance and/or Minimization Measures

Although participation in the MSHCP/NCCP and payment of the requisite development fees would generally provide coverage for and mitigate impacts to the special-status species covered under the plan, some of these species will likely require additional impact avoidance and/or minimization



measures for full MSHCP/NCCP compliance. Available draft MSHCP/NCCP documents do not yet list which species (if any) would require additional conservation measures or define what those measures may include; however, based on other MSHCP/NCCP's implemented in other areas of Southern California (i.e., Western Riverside County and Coachella Valley), the covered species with potential to occur in the BSA that may require additional actions by plan participants include, but are not necessarily limited to: desert tortoise, burrowing owl, loggerhead shrike, Le Conte's thrasher and Bendire's thrasher. These species are discussed separately below.

There is a moderate to high potential for desert tortoise to occur in the BSA based on the presence of suitable habitat and the known occurrence of the species in the vicinity. The desert tortoise is state and federally-listed as threatened. Although this species is also proposed to be covered under and conserved by the forthcoming MSHCP/NCCP, plan participants will also likely be required to implement additional actions, beyond the payment of a standard development fee, to ensure that impacts are avoided where possible and minimized to the maximum extent possible where avoidance is not possible. These additional actions may require, but not necessarily be limited to: 1) implementation of a Worker Environmental Awareness Program (WEAP), 2) preconstruction clearance surveys, 3) relocation (where necessary and authorized by the USFWS, CDFW and/or BLM, where applicable), 4) construction monitoring, 5) exclusion fencing, 6) trash containment and control to avoid or minimize the likelihood of attracting predators, and possibly a common raven management/control plan.

Although no sign (i.e., burrows, whitewash, pellets, feathers, etc.) of burrowing owl was observed during the assessment, suitable habitat is present and the BSA is within the geographic range of this species. Furthermore, California ground squirrels and their burrows, which are suitable for and often used by burrowing owls, were also observed. For these reasons, Amec Foster Wheeler considers there to be at least a moderate potential for burrowing owl to occur on, and in the immediate vicinity. Burrowing owls are not state or federally-listed as threatened or endangered, however are designated as a SSC by the CDFW. This species is proposed to be covered under, and conserved by, the MSHCP/NCCP, which means impacts would generally be mitigated through participation in and compliance with the plan. Although proposed to be covered and conserved by the MSHCP/NCCP, like the desert tortoise above, this species may require additional measures, beyond the payment of the standard development fee, by plan participants to ensure that impacts are avoided where possible and minimized to the maximum extent possible. Although burrowing owl would be a MSHCP-covered species, the federal permit that allows take of special-status species under the plan would not likely permit take of burrowing owl under the MBTA; therefore, surveys would likely be required where habitat is present. Burrowing owls are also sensitive to excessive noise and activities such as grading and operation of heavy equipment up to 500 feet away from occupied burrows may result in nest/burrow abandonment if/when such activities occur. Therefore, consideration of off-site impacts to burrowing owls would also likely be required. For these reasons, burrow searches, focused surveys (where burrows are found), preconstruction clearance surveys and monitoring (if the species is present) may be required in addition to the requisite development fee. When found to occur on or adjacent to a particular site proposed for development, the CDFW would also need to be contacted on a case by case basis for further guidance. Other actions that may be required include, but are not necessarily limited to, the following: 1) attendance at and compliance with a project-specific WEAP, 2) pre-construction clearance surveys, 3) biological monitoring, 4) establishment and



observance of no disturbance buffer zones around occupied burrows until the nestlings have fledged, and 5) trash containment and disposal to avoid attracting potential predators. Avoidance of activities (i.e., operation of heavy equipment) that might disrupt burrowing owl behavior may also apply. No disturbance buffer zone distances vary according to season. Outside of the breeding season (i.e., 1 September through 31 January), the CDFW recommends avoidance of disturbance to a 50 m radius around occupied burrows. During the nesting season (i.e., 1 February through 31 August), the CDFW recommends avoidance of disturbance to a 75 m radius around occupied burrows.

Loggerhead shrike was observed at one location in the BSA during the assessment. This species also has a high potential to occur (i.e., nest) throughout the BSA as this species nests in sparsely vegetated shrublands throughout the Mojave Desert and the southwest. Loggerhead shrike is not state or federally-listed as threatened or endangered, however is designated as a SSC by the CDFW and protected under the MBTA while nesting. This species is not proposed for coverage/conservation under the MSHCP/NCCP. For these reasons, any/all impacts to nesting loggerhead shrike must be avoided. The most effective, efficient and cost-effective way to avoid impacts to nesting loggerhead shrike, in addition to the other nesting bird species protected by the MBTA, is to avoid activities that have the potential to impact nesting birds during the nesting season (generally 1 February through 31 August for most species). Avoidance of the nesting season generally negates any further consideration of this, and most other bird species. If avoidance of the nesting season is not possible, pre-construction clearance surveys, biological monitoring and establishment of avoidance buffer zones (where necessary) around active nests would likely be required to minimize and mitigate impacts to nesting birds. Avoidance buffer zones are generally 300 feet for songbirds such as the loggerhead shrike but can be reduced on a case-by-case (often at the discretion of the biological monitor and with CDFW concurrence) basis depending on a variety of factors (i.e., topography, vegetation, existing structures, projectspecific activities, etc.).

Le Conte's thrasher was not observed during the assessment conducted in the BSA. Le Conte's thrasher is associated with a variety of desert scrub habitats where spiny vegetation such as cacti occurs and provides suitable habitat for nesting. Cacti, peach thorn, Mojave yucca and Joshua trees were observed throughout the BSA and provide suitable nesting and foraging habitat for this species. For these reasons, there is at least a low potential for Le Conte's thrasher to nest and occur in the BSA. Le Conte's thrasher is not listed as threatened or endangered by the USFWS or the CDFW. The San Joaquin Valley population is, however, designated as a SSC by the CDFW. This species is also proposed to be covered and conserved under the MSHCP/NCCP. Although Le Conte's thrasher is proposed to be a covered species, the federal permit that would allow take of special-status species under the plan will not likely allow take of nesting bird species that are protected under the MBTA. Like most of the other nesting bird species occurring or potentially occurring in the BSA, avoidance of activities potentially impacting nesting birds during the nesting season would negate any further consideration of this, and most other bird species. If avoidance of the nesting season is not possible, preconstruction clearance surveys, biological monitoring and establishment of avoidance buffer zones (where necessary) around active nests may be required to avoid and/or minimize impacts to nesting birds occurring on- and/or adjacent to the site.



Bendire's thrasher was not observed during the assessment conducted in the BSA. This species is associated with a variety of desert scrub habitats, including Mojavean creosote bush scrub, particularly areas providing tall vegetation, creosote bush, yuccas and cholla cactus. For these reasons, there is at least a low potential for Bendire's thrasher to nest and occur in the BSA. Bendire's thrasher is not listed as threatened or endangered by the USFWS or the CDFW. This species is, however, designated as a SSC by the CDFW. Like Le Conte's thrasher above, Bendire's thrasher is proposed to be covered and conserved under the MSHCP/NCCP. Although proposed for coverage under the plan, MBTA protection and provisions will likely still apply requiring the avoidance of impacts to nesting birds, including Bendire's thrasher. Avoidance of disturbance during the nesting season (generally 1 February through 31 August) is the most affordable and easiest way to avoid potentially impacting nesting birds. Preconstruction clearance surveys during the nesting season, biological monitoring and/or establishment of avoidance buffer zones (where necessary) around nest sites may be required, when avoidance of the nesting season is not possible.

#### 6.1.2 Special-status Biological Resources likely not Covered under the MSHCP/NCCP

#### 6.1.2.1 Migratory Bird Treaty Act

Likely to be excluded from coverage or conservation under the MSHCP/NCCP are a variety of common bird species that have no special status designations but are nevertheless protected by the MBTA. This includes virtually all native migratory and resident bird species, including birds already known to occur or have the potential to occur in the vicinity. Representative examples include, but are not limited to: killdeer (Charadrius vociferous), common raven, common poorwill, greater roadrunner, verdin and black-throated sparrow (Amphispiza bilineata). Avoidance of impacts to all nesting migratory and resident birds will likely be a requirement of the federal permit issued for the MSHCP/NCCP. In order to avoid impacting nesting birds, avoidance of disturbance during the nesting season (generally 1 February 1 through 31 August) is recommended whenever and wherever possible. If avoidance of the nesting season is not feasible, additional impact avoidance and minimization measures may be required: These measures may include, but not necessarily limited to, the following: 1) attendance of and compliance with a project-specific WEAP, 2) pre-construction clearance surveys, 3) biological monitoring, 4) establishment and observance of no disturbance buffer zones around active bird nests found during the daily preconstruction surveys until the young birds have fledged and 5) trash containment and disposal to avoid attracting potential predators.

If nesting birds are found on a project site, work would not likely be permitted near the nest site (i.e., within the no disturbance buffer zone[s] surrounding nests) until young have fledged. While there is no established protocol for nest avoidance, when consulted the CDFW generally recommends avoidance buffers of about 500 feet for birds-of-prey, and 100–300 feet for songbirds. Routine monitoring of nests would document when the young have fledged and when potentially-disruptive project activities in the vicinity could be implemented without impacting nesting birds.

#### 6.1.2.2 Jurisdictional Areas

Many unnamed, mostly small, drainages (i.e., dry washes) are present throughout the BSA. None of the observed drainages were flowing or exhibited surface water at the time of the assessment and no riparian or hydrophytic vegetation, one of the indicators of "wetlands", was observed.



Although these drainages would not likely meet the definition for wetlands, many would likely meet the definition of "waters of the United States" and/or "waters of the state of California" and thus fall under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB) and/or the CDFW. For these reasons, impacts (i.e., changes to the bed, bank or channel of rivers, streams and lakes) to these jurisdictional areas would require permitting by these agencies. Programmatic permits and/or authorizations for MSHCP/NCCP-covered activities, however, may be issued at some time in the future. Until such time, however, jurisdictional delineations, nationwide permits, individual permits, streambed alteration agreements, water quality certifications and/or any other required authorizations would need to be obtained by each individual project proponent, or the Town of Apple Valley on their behalf.

Avoidance of impacts to jurisdictional areas is recommended wherever possible. For unavoidable impacts, however, minimization and mitigation will likely be required. Standard mitigation for impacts to jurisdictional areas usually includes compensation of offsite "like" habitat, usually at a ratio of at least a 1:1. The establishment of buffer zones around retained/avoided drainages will likely be required. Buffer zones are typically at least 50 feet in width.

#### 6.2 Multiple Species Habitat Conservation Plan

The BSA is to be located within the coverage area for the MSHCP/NCCP. Projects permitted under the MSHCP/NCCP have the potential to affect a variety of occurring or potentially-occurring special-status species that are proposed to be covered under the MSHCP/NCCP. Participation in (i.e., payment of a requisite development fee) and compliance with the requirements and provisions of the MSCHP/NCCP would ensure that project-related impacts to these species are permitted, covered, minimized and mitigated. Participation in the MSHCP/NCCP may, however, require additional actions for full coverage for some of these species, as described above.

#### 6.3 Recommended Impact Avoidance and Minimization Measures

In addition to the payment of the requisite development fees and participation in the MSCHP/NCCP, which is designed to mitigate potential Project impacts to covered special-status biological resources occurring or potentially-occurring in the coverage area, additional measures designed to avoid and minimize impacts to the covered special-status biological resources potentially occurring on the Project site and/or immediately adjacent may also be required. Representative examples may include:

- 1) A preconstruction clearance survey within and adjacent to the project disturbance footprint prior to commencement of project-related activities on-site. The survey is intended to detect any special-status biological resources (i.e., all special-status species and active bird nests) prior to project implementation so that impacts can be avoided (where possible) or minimized (where necessary). Any/all special-status biological resources found in the immediate vicinity would be marked/mapped with a handheld GPS and these "Environmentally Sensitive Areas" will be flagged and/or staked in the field for avoidance and monitored during construction to ensure that impacts to these resources are avoided and/or minimized to the greatest extent possible.
- 2) Biological monitoring of all project-related disturbances that have the potential to affect special-status biological resources. The biological monitor would be qualified in the identification of the special-status biological resources potentially occurring on-site and



would have the authority to temporarily halt any and all project-related activities that threaten special-status resources in order to avoid and/or minimize impacts, and to contact the resource agencies (i.e., USFWS, CDFW, CVAG, etc.) should special-status biological resources be encountered during construction.

- a. Impact avoidance and/or minimization measures implemented by the biological monitor would include:
  - i. Daily preconstruction clearance sweeps of the project site. The biological monitor would conduct preconstruction clearance sweeps immediately prior (i.e., the morning of and/or the day prior) to commencement of daily operations to detect special-status biological resources present within the current work zone. Any/all special-status biological resources found in the immediate vicinity would be marked/mapped with a handheld GPS, flagged in the field for avoidance and monitored during construction to ensure that impacts to these resources are avoided and/or minimized to the greatest extent possible.
  - ii. Issue a temporary stop work order to allow special-status species (i.e., desert tortoise, burrowing owl, Mohave ground squirrel, etc.) to voluntarily move away from the active work zone without interference from project personnel, including the biological monitor.
  - iii. Physical capture, temporary handling and immediate relocation of specialstatus species, when voluntary dispersal cannot be achieved, after receipt of authorization from respective resource agencies. This would likely include contacting the USFWS, CDFW and/or BLM to determine the best course of action, potential relocation areas and/or handling protocols.
- 3. Implementation of a Worker Environmental Awareness Program (WEAP) to inform project personnel working in the field of the potential presence of special-status biological resources along the alignment. The WEAP would include photographs, descriptions, conservation status, impact avoidance and minimization measures proposed and penalties associated with unauthorized impacts to the special-status species potentially occurring along the alignment. Project personnel would be required to attend the WEAP and sign an acknowledgment of attendance and agreement to comply with the measures outlined in the WEAP, MSHCP/NCCP and specific project permit requirements.
- 4. A trash containment plan and proper disposal to avoid attracting scavengers and predators to the Project site.
- 5. Completion of a jurisdictional delineation to determine the areas of the project disturbance footprint that are within jurisdictional areas and the permits, agreements and certifications as well as any mitigation required to compensate for unavoidable Project impacts to jurisdictional areas.
- 6. Restoration of the pre-existing topography, contours and native vegetation communities temporarily impacted by project implementation. This applies to all on-site and adjacent areas temporarily impacted by the project. Restoration aids in the recovery of the undeveloped, temporarily impacted vegetation, habitats and drainage.



- 7. Avoidance of landscaping with invasive and/or toxic plant species.
- 8. Avoidance of night work involving the use of bright lighting to avoid potential impacts to nocturnal wildlife such as bats.
- 9. Participation in and compliance with the all requirements, terms and conditions of the MSHCP/NCCP.

#### 6.4 Recommended Actions Prior to Adoption of the MSHCP/NCCP

Until the MSHCP/NCCP is finalized and implemented, any/all proposed projects would need to individually comply with existing laws and regulations protecting listed and special-status biological resources. Project proponents would be required to individually fund and conduct a biological resources assessment for each project. When habitat for the potentially-occurring special-status species is not present on-and/or immediately adjacent to a given site, no direct or indirect disturbance or "take" of habitat would result, and disturbance to jurisdictional areas are entirely avoided, generally nothing more would be required and the proposed project could proceed. Biological resources assessments are generally considered to be valid for a one (1) year period. If project implementation exceeds one (1) year following the biological resources assessment, the process may need to be repeated.

When a biological resources assessment determines that habitat for special-status species (e.g., desert tortoise, Mohave ground squirrel, burrowing owl, nesting birds) is present on a given project site, usually focused surveys conducted in accordance with regulatory agency protocols are required. Depending on the species in question, these surveys have seasonal requirements, temperature requirements, daily time period requirements, surveyor qualifications requirements, etc. and can take months, sometimes even years to complete.

In lieu of conducting surveys, proponents can simply assume presence and mitigate accordingly. When focused surveys determine impacts to the occurring or potentially-occurring special-status species are possible, impacts would need to be entirely avoided or permitted individually through a Section 7 incidental take permit (for those projects having a federal nexus) or through a Section 10 incidental take permit (for those projects not having a federal nexus) under the FESA, section 2081 incidental take permit under the CESA, where applicable.

For projects potentially impacting special-status species habitat, focused surveys to determine each of the potentially-occurring special-status species would also likely be required. Focused surveys for Mohave ground squirrel involves an intensive trapping effort conducted by permitted biologists and in accordance with CDFW protocol. If evidence of any of these species is found to occur on, or adjacent to, a proposed project site, the respective above-referenced incidental take permits would be required. Permitting would include a list of terms, conditions and requirements for project implementation. Depending on the species in question, these terms, conditions and requirements may include, but are not limited to:

- Preconstruction clearance surveys
- Specific measures to avoid or minimize impacts
- Relocation of special-status species (i.e., desert tortoise, burrowing owl) to off-site areas where impact avoidance is not possible



- Biological monitoring
- A project-specific WEAP
- Trash containment and disposal
- Designated project speed limits
- Common raven control plan
- Restoration of temporarily disturbed areas
- The acquisition of compensatory habitat off-site

Projects potentially resulting in impacts to drainages would be required to quantify and delineate the limits of those impacts and apply for and receive various permits, authorizations and/or certificates from the USACOE, CDFW and/or RWQCB.

#### 7.0 CONCLUSION

The proposed annexation of the 1,390-acre area commonly referred to as "the golden triangle" is not anticipated to significantly alter the conceptual landscape for the implementation of the forthcoming MSHCP/NCCP. This area is currently zoned for future residential, commercial and/or industrial development and does not appear to offer any viable long-term conservation value for any of the proposed covered species under the plan. This area is also not located immediately adjacent to any conservation areas proposed by the plan. Suitable habitat for a variety specialstatus species that are proposed to be covered by and conserved under the MSHCP/NCCP is. however, present within the proposed BSA. Although specific project-related impacts to the potentially-occurring MSHCP/NCCP-covered species are not currently known at this time, most anticipated future impacts (i.e., development) would generally be mitigated through participation in and compliance with the requirements of the plan (i.e., usually payment of a per-acre development fee), once the plan is finalized and implemented. Additional conservation actions, however, may be required to further minimize impacts for some of the covered species. Representative examples of special-status biological resources that may require additional conservation measures include, but are not limited to: desert tortoise, burrowing owl and other nesting bird species protected under the MBTA. Examples of additional conservation measures may include: 1) pre-construction clearance surveys for desert tortoise and burrowing owl, 2) relocation of any on-site desert tortoises and/or burrowing owl with project-specific agency concurrence and following specific requirements and guidelines for each, 3) avoidance of impacts to nesting bird species protected by the MBTA, 4) administration of a project-specific WEAP outlining required impact avoidance and minimization measures, 5) temporary exclusion fencing for desert tortoise, 6) implementation of a litter control and trash abatement program, 7) implementation of a common raven control/management plan, 8) landscaping with only approved plant species, and 9) avoidance of planting invasive and/or toxic exotic plant species. Additional conservation measures (if any) required for MSHCP/NCCP compliance and participation will be outlined and stipulated in their entirety by the plan.

In addition to participation and compliance with the MSHCP/NCCP, applicants proposing actions that may impact special-status biological resources that are not covered by the plan will either



need to avoid impacts to those resources or ensure impacts are minimized to acceptable levels. Participants impacting jurisdictional areas will likely need to delineate the limits of the jurisdictional areas, define and quantify the impacts and apply for permits, agreements and/or certifications from the USACE, CDFW and/or RWQCB for authorization prior to project implementation.

With participation in and compliance with the MSHCP/NCCP, the payment of required development fees and the implementation of any and all additional conservation measures for the 0occurring or potentially-occurring special-status species covered under the plan, as well as avoidance or mitigation of impacts to the occurring or potentially-occurring biological resources that are not covered under the plan (i.e., jurisdictional areas and nesting bird species protected by the MBTA), projects proposed in the BSA are anticipated to be in compliance with the proposed MSHCP/NCCP.

Until the MSHCP/NCCP is implemented and the associated take permits for the plan have been finalized and signed by all associated parties including the resource agencies, project proponents proposing disturbance to habitat within the BSA would be subject to current regulatory processes. These include conducting biological studies (i.e., assessments, focused surveys and/or jurisdictional delineations) to determine if the proposed action may impact potentially-occurring threatened or endangered species or otherwise special-status biological resources. determined that a project has the potential to affect a threatened or endangered species, the proponent must apply for and receive an incidental take permits for unavoidable impacts. Projects resulting in impacts to other special-status biological resources (i.e., special concern species, nesting birds, jurisdictional areas) must also be avoided or minimized to acceptable levels. Once issued, permits will likely contain terms, conditions and requirements that are designed to avoid (where possible) and/or minimize project-related impacts to the greatest extent possible. These measures may include, but not limited to: 1) pre-construction clearance surveys, 2) relocation of special-status species off-site, 3) biological monitoring, 4) a WEAP, 5) trash containment, 6) speed limits, 7) common raven management plan, 8) restoration of temporarily disturbed areas, and 9) acquisition of compensatory habitat.



#### 8.0 LITERATURE CITED AND REFERENCES

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#### **APPENDIX 1**

**SPECIES LIST: VASCULAR PLANTS** 



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#### **APPENDIX 1**

#### SPECIES LIST: VASCULAR PLANTS

This list reports only plants observed on the site by this study. Other species may have been overlooked or undetectable due to their growing season. Unless noted otherwise, nomenclature and systematics follows Jepson Flora Project (2014) = non-native species, sp. = identified only to genus, cf= compares favorably with]. Common names not provided by Jepson Flora Project follows those provided by USDA, NRCS (2015b). [t= special status species, \* = non-native species, sp. = identified only to genus, *cf*= compares favorably with]

**CONIFERAE** 

**CONE BEARING PLANTS** 

**GNETAE** 

JOINT FIRS

**Ephedraceae** 

**Ephedra Family** Nevada ephedra

Ephedra nevadensis

**DICOT FLOWERING PLANTS** 

#### DICOTYLEDONEAE

#### Sunflower Family

Asteraceae

annual bur-sage white bur-sage

Ambrosia dumosa Ambrosia salsola Ericameria nauseosa

Ambrosia acanthicarpa

common burrowbrush, cheesebush rubber rabbitbrush

Ericameria sp.

goldenbush wire-lettuce

Stephanomeria pauciflora

#### **Brassicaceae Mustard Family**

\*Brassica tournefortii \*Hirschfeldia incana

\*Lepidium sp.

\*Sisymbrium irio

\*Sisymbrium sp.

Saharan mustard short-pod mustard pepper grass London rocket

#### Cactaceae

**Cactus Family** 

tumble mustard

Cylindropuntia echinocarpa Cylindropuntia ramosissima

golden cholla diamond cholla, pencil cactus

#### Chenopodiaceae

Goosefoot Family

Atriplex canescens Atriplex polycarpa

four-wing saltbush allscale saltbush

\*Salsola tragus

Russian thistle, tumbleweed

#### **Euphorbiaceae**

Spurge Family

Euphorbia albomarginata

rattlesnake sandmat



Geraniaceae

\*Erodium cicutarium

Lamiaceae

Scutellaria mexicana

Loasaceae

Petalonyx thurberi

Polegonaceae

Eriogonum fasciculatum Eriogonum inflatum Eriogonum angulosum

Solanaceae

Datura wrightii Lycium cooperi

**Tamaricaceae** 

\*Tamarix ramosissima

Zygophyllaceae

Larrea tridentata

MONOCOTYLEDONEAE

Liliaceae

Yucca brevifolia Yucca schidegera

Poaceae

Achnatherum hymenoides

\*Bromus madritensis ssp. rubens

\*Bromus tectorium

\*Schismus cf. barbatus

Geranium Family

redstem filaree

**Mint Family** 

bladder-sage

Stickleaf Family

sandpaper plant

**Buckwheat Family** 

California buckwheat

desert trumpet

angle-stem wild buckwheat

**Nightshade Family** 

jimsonweed peach thorn

Tamarisk Family

salt cedar

**Caltrop Family** 

creosote bush

MONOCOT FLOWERING PLANTS

Lily Family

Joshua tree

Mojave yucca

**Grass Family** 

Indian ricegrass

red brome

cheat grass

common Mediterranean grass



#### **APPENDIX 2**

**SPECIES LIST: VERTEBRATES** 



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#### **APPENDIX 2**

**SPECIES LIST: VERTEBRATES** 

This list reports the vertebrate animals observed and/or detected in the BSA during the field work conducted by Amec Foster Wheeler on 3 August 2017. Many other species are expected to occur but were undetectable due to their activity patterns and/or current weather conditions. [ $\dagger$ = special status species, \* = non-native species, sp. = identified only to genus, cf = compares favorably with]

**VERTEBRATES** 

REPTILIA REPTILES

Phrynosomatidae Horned Lizards, Spiny Lizards & Relatives

Uta stansburiana elegans western side-blotched lizard

AVES BIRDS

ColumbidaePigeons and DovesZenaida macrouramourning dove

CaprimulgidaeGoatsuckersPhalaenoptilus nuttalliicommon poorwill

Corvidae Crows, Ravens & Jays
Corvus corax common raven

Alaudidae Larks
Eremophila alpestris horned lark

Lanidae Shrikes
\*\*Lanius ludovicianus loggerhead shrike

SturnidaeStarlings and Allies\*Sturnus vulgarisEuropean Starling

Fringillidae Cardueline Finches & Allies
Carpodacus mexicanus house finch

MAMMALIA MAMMALS

CanidaeDogs, Foxes, Coyotes and Wolves\*Canis domesticusdomestic dog (scat, tracks, digs)



Canis latrans

Leporidae

Lepus californicus

Cricetidae

Neotoma cf. lepida (middens)

**Squiridae** 

Ammospermophilus leucurus Otospermophilus beecheyi

Rodentia

*Unknown* (burrows)

coyote (scat, tracks)

Rabbits and Hares black-tailed jackrabbit

New World Mice and Rats desert woodrat (middens)

Squirrels and Relatives white-tailed antelope squirrel California ground squirrel

Rodents

unknown (burrows)



# APPENDIX 3 PHOTOGRAPHIC EXHIBITS



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## Apple Valley Annexation Project Biological Resources Assessment



Photo 1. Representative condition of the BSA. View facing east.



Photo 2. Representative drainage in the BSA. View facing east.

### Apple Valley Annexation Project Biological Resources Assessment



Photo 3. Representative condition of the BSA. Single-family residential dwelling in background. View facing west.



Photo 4. Representative drainage in the BSA. View facing northwest.

### Apple Valley Annexation Project Biological Resources Assessment



Photo 5. Example of an on-site somewhat rocky knoll. View facing northeast.



Photo 6. Example of an on-site somewhat rocky knoll. View facing north.

#### Appendix C Traffic Update Letter



October 25, 2017

Ms. Nicole Criste Terra Nova Planning & Research 42635 Melanie Place #101 Palm Desert, CA 92211

SUBJECT: APPLE VALLEY LAND ANNEXATION TRIP GENERATION ASSESSMENT

Dear Ms. Nicole Criste:

This letter summarizes the findings for the trip generation assessment prepared for the proposed Apple Valley Land Annexation ("2017 Annexation"), which is located east of the I-15 Freeway, north of Johnson Road, and west of Dale Evans Parkway in the Town of Apple Valley.

The purpose of this letter is to determine if the proposed 2017 Annexation would generate more or fewer trips than that previously evaluated as part of the 2009 General Plan ("2009 Annexation"). The trip generation comparisons are based on the 9<sup>th</sup> Edition of the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (2012).

#### SUMMARY OF ANALYSIS FINDINGS

To make the necessary comparisons, trip generation estimates have been prepared for: 1) the 2009 Annexation Area; and 2) the proposed 2017 Annexation Area. Implementation of the proposed 2017 Annexation would result in an overall reduction of 117,738 trip-ends per day compared to the approved 2009 Annexation along with 7,759 fewer vehicle trips during the AM peak hour and 12,683 fewer vehicle trips during the PM peak hour. The decrease in trip generation is attributable to a reduction to the land area and intensity of the proposed uses. The following summarizes the reductions between the currently adopted and proposed annexation areas:

- Estate Residential: reduction of 475 dwelling units
- Medium Density Residential: reduction of 2,659 dwelling units
- Mixed-Use Residential: reduction of 854 dwelling units
- Commercial Retail: reduction of 1,591,630 square feet
- Office: increase of 113,318 square feet
- Industrial: reduction of 4,136,059 square feet

The traffic analysis previously performed for the 2009 Annexation indicated that the Preferred Scenario land use plan could be accommodated by the Town's planned circulation network at the target LOS C and D. Based on the reduction in trips identified for the proposed 2017 Annexation, it is anticipated that

Ms. Nicole Criste Terra Nova Planning & Research October 25, 2017 Page 2 of 6

the LOS previously projected for the roadways and intersections near the Annexation Area would be the same or in some cases improved as compared to the 2009 Annexation. As such, no new traffic impacts beyond those previously disclosed in the 2009 Annexation traffic study would occur as a result of the 2017 Annexation.

#### PROJECT DESCRIPTION

#### **CURRENTLY ADOPTED: 2009 ANNEXATION**

The 2009 General Plan Traffic Study included the following land use assumptions for the 2009 Annexation area:

- Estate Residential: 722 dwelling units
- Medium Density Residential: 2,659 dwelling units
- Mixed-Use Residential: 854 dwelling units
- Commercial Retail (Mixed-Use, Regional Commercial, General Commercial): 5,380,731 square feet
- Office: 1,754,639 square feet
- Industrial: 7,782,275 square feet

The 2009 Annexation area included the area bounded by the I-15 Freeway, Johnson Road, and Dale Evans Parkway (Annexation Area #1 or Golden Triangle area) and an area bounded by Central Road, Quarry Road, and Lafayette Street (Annexation Area #2 or northeast annexation area). Exhibit 1 shows the currently adopted annexation area.

#### **PROPOSED: 2017 ANNEXATION**

The Annexation Area #2 was annexed to the City shortly after adoption of the General Plan, and is not considered further in this analysis. The boundary for Annexation Area #1 has been revised for the purposes of the 2017 Annexation to include a smaller land area (see Exhibit 2). The following is a summary of the land use assumptions for the 2017 Annexation area (Golden Triangle area only):

- Estate Residential: 247 dwelling units
- Commercial Retail (Regional Commercial and General Commercial): 3,789,101 square feet
- Office: 1,867,957 square feet
- Industrial: 3,646,216 square feet

There are portions that are now anticipated to remain within the County of San Bernardino (see Exhibit 1). The land uses proposed for the area remaining within the County of San Bernardino are summarized below:



Ms. Nicole Criste Terra Nova Planning & Research October 25, 2017 Page 3 of 6

Rural Living: 218 dwelling units

• Commercial Retail (General Commercial): 75,899 square feet

#### PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development. The trip generation rates used for this assessment are based upon information collected by the Institute of Transportation Engineers (ITE) as provided in their latest Trip Generation Manual (10<sup>th</sup> Edition, 2017). The ITE Trip Generation Manual is a nationally recognized source for estimating site-specific trip generation.

In an effort to compare the net change in vehicle trips to be generated by the proposed 2017 Annexation as compared to the 2009 Annexation, current ITE trip generation rates for the land use categories general light industrial, single family residential, multifamily housing, general office, and commercial retail have been applied to each annexation scenario in order to provide an "apples to apples" comparison of trip generation. Trip generation rates used for the purposes of this assessment are shown in Table 1.

**TABLE 1: TRIP GENERATION RATES** 

		ITE LU	AM Peak Hour			PM Peak Hour			Daily
Land Use	Units <sup>2</sup>	Code	In	Out	Total	In	Out	Total	Daily
General Light Industrial <sup>3</sup>	TSF	110	0.616	0.084	0.700	0.082	0.548	0.630	4.960
Passenger Cars			0.484	0.066	0.550	0.064	0.431	0.495	3.899
2-Axle Trucks (PCE = 1.5)			0.074	0.010	0.084	0.010	0.066	0.076	0.595
3-Axle Trucks (PCE = 2.0)			0.048	0.007	0.055	0.006	0.043	0.049	0.387
4-Axle+ Trucks (PCE = 3.0)			0.176	0.024	0.200	0.023	0.156	0.180	1.414
Single Family Detached Residential	DU	210	0.19	0.56	0.74	0.62	0.37	0.99	9.44
Multifamily Housing (Low-Rise)	DU	220	0.11	0.35	0.46	0.35	0.21	0.56	7.32
General Office	TSF	710	1.00	0.16	1.16	0.18	0.97	1.15	9.74
Shopping Center	TSF	820	0.58	0.36	0.94	1.83	1.98	3.81	37.75

<sup>&</sup>lt;sup>1</sup> Trip Generation Source: Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, Tenth Edition (2017).



<sup>&</sup>lt;sup>2</sup> DU = dwelling units; TSF = thousand square feet

<sup>&</sup>lt;sup>3</sup> General Light Industrial Vehicle Mix Source: City of Fontana Truck Trip Generation Study for LU 110, August 2003. PCE rates are per SBCTA.

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### **CURRENTLY ADOPTED: 2009 ANNEXATION**

Table 2 summarizes the resulting trip generation estimates based on the 2009 Annexation land use assumptions. The adopted land uses for Annexation Area #1 generates a net total of approximately 309,176 trip-ends per day with 17,140 AM peak hour trips and 32,933 PM peak hour trips.

**TABLE 2: TRIP GENERATION SUMMARY: 2009 ANNEXATION** 

			AN	/I Peak Ho	our	PN	1 Peak Ho	our	
Land Use	Quantity	Units <sup>2</sup>	ln	Out	Total	ln	Out	Total	Daily
Estate Residential	722	DU	134	401	535	450	264	714	6,816
Medium Density Residential	2,659	DU	492	1,476	1,968	1,658	974	2,632	25,101
Mixed-Use Residential	854	DU	158	474	632	533	313	846	8,062
Commercial Retail	5,380.731	TSF	3,136	1,922	5,058	9,840	10,660	20,500	203,123
General Office	1,754.639	TSF	1,750	285	2,035	323	1,695	2,018	17,090
General Light Industrial	7,782.275	TSF							
Passenger Cars:			3,768	514	4,282	501	3,353	3,854	30,340
Truck Trips:									
2-axle:			575	78	653	76	512	588	4,632
3-axle:			374	51	425	50	333	383	3,011
4+-axle:			1,366	186	1,552	182	1,216	1,398	11,001
- Net Truck Trips (PCE) <sup>2</sup>			2,315	315	2,630	308	2,061	2,369	18,644
Total	•	-	11,753	5,387	17,140	13,613	19,320	32,933	309,176

<sup>&</sup>lt;sup>1</sup> Trip Generation Source: Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, Tenth Edition (2017).



<sup>&</sup>lt;sup>2</sup> DU = dwelling units; TSF = thousand square feet

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### **PROPOSED: 2017 ANNEXATION**

The proposed 2017 Annexation is anticipated to generate a net total of approximately 191,438 trip-ends per day with 9,381 AM peak hour trips and 20,250 PM peak hour trips. The trip generation associated with the County of San Bernardino area has been calculated separately from the new Golden Triangle boundary.

TABLE 3: TRIP GENERATION SUMMARY: 2017 ANNEXATION AREAS

			AM Peak Hour		PM Peak Hour				
Land Use	Quantity	Units <sup>2</sup>	ln	Out	Total	In	Out	Total	Daily
Golden Triangle Area									
Estate Residential	247	DU	46	137	183	154	90	244	2,332
Commercial Retail	3,789.101	TSF	2,208	1,353	3,561	6,930	7,507	14,437	143,039
General Office	1,867.957	TSF	1,863	303	2,166	344	1,804	2,148	18,194
General Light Industrial	3,646.216	TSF							
Passenger Cars:			1,765	241	2,006	235	1,571	1,806	14,215
Truck Trips:									
2-axle:			270	37	307	36	240	276	2,170
3-axle:			175	24	199	23	156	179	1,411
4+-axle:			640	87	727	85	570	655	5,154
- Net Truck Trips (PCE) <sup>2</sup>			1,085	148	1,233	144	966	1,110	8,735
Total (Golden Triangle Area)			6,967	2,182	9,149	7,807	11,938	19,745	186,515
County of San Bernardino Area									
Rural Living	218	DU	40	121	161	136	80	216	2,058
Commercial Retail	75.899	TSF	44	27	71	139	150	289	2,865
Total (County of San Bernardino Area)			84	148	232	275	230	505	4,923
Grand Total			7,051	2,330	9,381	8,082	12,168	20,250	191,438

<sup>&</sup>lt;sup>1</sup> Trip Generation Source: Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, Tenth Edition (2017).



<sup>&</sup>lt;sup>2</sup> DU = dwelling units; TSF = thousand square feet

Ms. Nicole Criste Terra Nova Planning & Research October 25, 2017 Page 6 of 6

### TRIP GENERATION COMPARISON

As shown in Table 4, the development of the proposed 2017 Annexation is anticipated to generate 117,738 fewer trip-ends per day with 7,759 fewer AM peak hour trip and 12,683 fewer PM peak hour trips as compared to the currently adopted land uses within the 2009 Annexation.

**TABLE 4: TRIP GENERATION COMPARISON** 

	AM Peak Hour			PN			
Land Use	In	Out	Total	ln	Out	Total	Daily
2009 Annexation <sup>1</sup>	11,753	5,387	17,140	13,613	19,320	32,933	309,176
2017 Annexation <sup>2</sup>	7,051	2,330	9,381	8,082	12,168	20,250	191,438
Variance <sup>3</sup>	-4,702	-3,057	-7,759	-5,531	-7,152	-12,683	-117,738

<sup>&</sup>lt;sup>1</sup> Total from Table 2.

### **CONCLUSION**

The traffic analysis previously performed for the 2009 Annexation indicated that the Preferred Scenario land use plan could be accommodated by the Town's planned circulation network at the target LOS C and D. Based on the reduction in trips identified for the proposed 2017 Annexation, it is anticipated that the LOS previously projected for the roadways and intersections near the Annexation Area would be the same or in some cases improved as compared to the 2009 Annexation. As such, no new traffic impacts beyond those previously disclosed in the 2009 Annexation traffic study would occur as a result of the 2017 Annexation. If you have any questions or comments, I can be reached at (949) 336-5982.

URBAN CROSSROADS, INC.

Charlene So

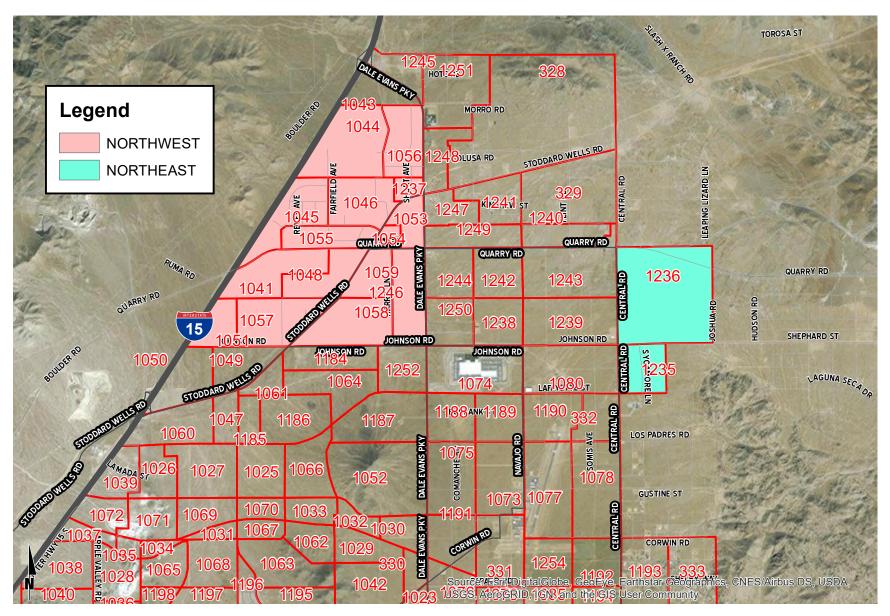
Charlene So, PE Senior Associate

**Attachments** 



<sup>&</sup>lt;sup>2</sup> Total from Table 3.

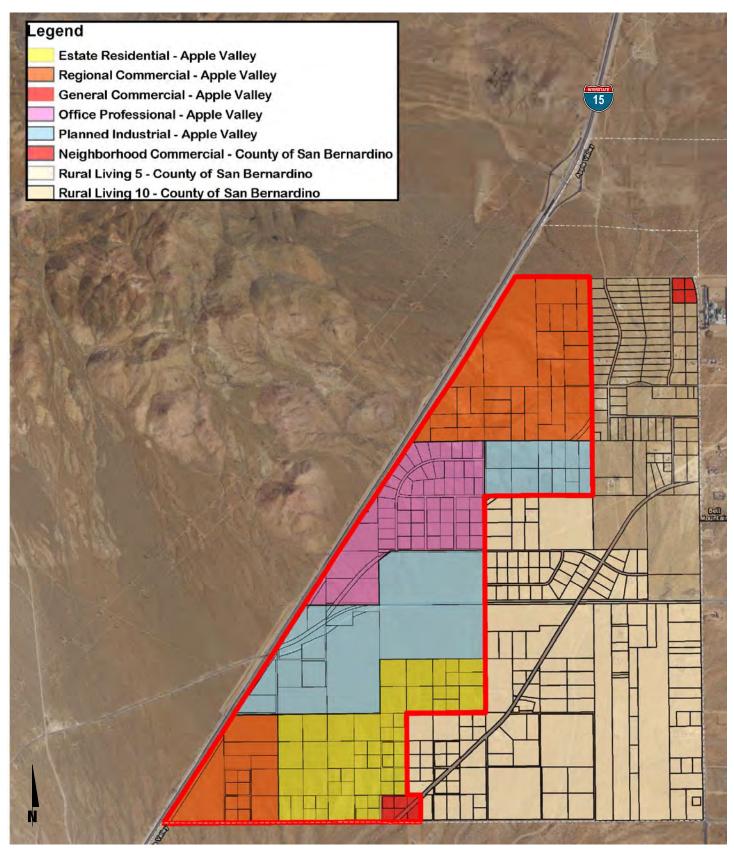
<sup>&</sup>lt;sup>3</sup> Variance = 2017 Annexation - 2009 Annexation. Negative value represents a reduction in trips.



**EXHIBIT 1: CURRENTLY ADOPTED AANNEXATION AREA** 



**EXHIBIT 2: PROPOSED 2017 ANNEXATION AREA** 



# **Draft Resolution #3280 Attachment 4**

# LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490 (909) 388-0480 • Fax (909) 388-0481 lafco@lafco.sbcounty.gov www.sbclafco.org

PROPOSAL NO.: LAFCO 3229

**HEARING DATE: DECEMBER 5, 2018** 

### **RESOLUTION NO. 3280**

A RESOLUTION OF THE LOCAL AGENCY FORMATION COMMISSION OF THE COUNTY OF SAN BERNARDINO MAKING DETERMINATIONS ON LAFCO 3229 - REORGANIZATION TO INCLUDE ANNEXATION TO THE TOWN OF APPLE VALLEY AND DETACHMENT FROM COUNTY SERVICE AREA 70. The reorganization area encompasses approximately 1,365 acres, which is generally bordered by a combination of parcel lines and Morro Road (existing Town boundaries) on the north, a combination of Fairfield Avenue and parcel lines on the east, a combination of parcel lines, Johnson Road (existing Town boundaries) on the south, and the centerline of the Interstate 15 Freeway on the west. The area is generally located in the northern Town of Apple Valley sphere of influence area.

On motion of Commissioner \_\_\_\_\_, duly seconded by Commissioner \_\_\_\_\_, and carried, the Local Agency Formation Commission adopts the following resolution:

WHEREAS, an application for the proposed reorganization in San Bernardino County was filed with the Executive Officer of this Local Agency Formation Commission (hereinafter referred to as "the Commission") in accordance with the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (Government Code Sections 56000 et seq.), and the Executive Officer has examined the application and executed his certificate in accordance with law, determining and certifying that the filings are sufficient; and,

**WHEREAS**, at the times and in the form and manner provided by law, the Executive Officer has given notice of the public hearing by the Commission on this matter; and,

**WHEREAS**, the Executive Officer has reviewed available information and prepared a report including his recommendations thereon, the filings and report and related information having been presented to and considered by this Commission; and,

**WHEREAS**, the public hearing by this Commission was called for December 5, 2018 at the time and place specified in the notice of public hearing; and,

**WHEREAS**, at the hearing, this Commission heard and received all oral and written support and/or opposition; the Commission considered all plans and proposed changes of organization, objections and evidence which were made, presented, or filed; it received evidence as to whether the territory is inhabited or uninhabited, improved or unimproved; and all persons present were given an opportunity to hear and be heard in respect to any matter relating to the application, in evidence presented at the hearing.

**NOW**, **THEREFORE**, **BE IT RESOLVED**, that the Commission does hereby determine, find, resolve, and order as follows:

### **DETERMINATIONS**:

**SECTION 1.** The proposal is approved subject to the terms and conditions hereinafter specified:

### **CONDITIONS:**

<u>Condition No. 1.</u> The boundaries of this change of organization are approved as set forth in Exhibits "A" and "A-1" attached.

<u>Condition No. 2.</u> The following distinctive short-form designation shall be used throughout this proceeding: LAFCO 3229.

<u>Condition No. 3.</u> All previously authorized charges, fees, assessments, and/or taxes currently in effect by the Town of Apple Valley (annexing agency) shall be assumed by the annexing territory in the same manner as provided in the original authorization pursuant to Government Code Section 56886(t).

<u>Condition No. 4.</u> The Town of Apple Valley will accept the transfer of all previously offered or dedicated drainage easements within the affected area as shown on exhibits to the resolution of approval, which exclude any regional drainage facilities identified. The Town will assume authority over these drainage easements upon completion of LAFCO 3229.

Condition No. 5. The Town of Apple Valley shall be required to initiate annexation of the remainder of the island within one year of the Commission's approval of LAFCO 3229. A resolution by the Town Council of the Town of Apple Valley shall be submitted to the Executive Officer of LAFCO outlining the Town's commitment to fulfilling this requirement prior to the issuance of the Certificate of Completion for LAFCO 3229. A status report shall be provided to the Commission at the six month date outlining the progress of the Town of Apple Valley in fulfilling its obligation. Failure on the part of the Town of Apple Valley to fulfill its commitment for annexation of the remainder island shall require that the next annexation proposed to the Town of Apple Valley, either by the Town through resolution or by property owner/registered voter petition, include a condition requiring the initiation of annexation of the reminder island. Said condition of approval shall be deemed completed upon the issuance of the Certificate(s) of Filing for the island.

<u>Condition No. 6.</u> The Town of Apple Valley shall indemnify, defend, and hold harmless the Local Agency Formation Commission for San Bernardino County from any legal expense, legal action, or judgment arising out of the Commission's approval of this proposal, including any reimbursement of legal fees and costs incurred by the Commission.

<u>Condition No. 7.</u> Pursuant to Government Code Section 56886.1, public utilities, as defined in Section 216 of the Public Utilities Code, have ninety (90) days following the recording of the Certificate of Completion to make the necessary changes to impacted utility customer accounts.

<u>Condition No. 8.</u> The date of issuance of the Certification of Completion shall be the effective date of the reorganization;

**SECTION 2.** The Commission determines that approval of LAFCO 3229 will create an unincorporated island completely surrounded by the Town of Apple Valley. Since the east side of Interstate 15 within the Town's unincorporated sphere cannot be developed in conformity with the Town's standards unless the area is annexed, the Commission determines, pursuant to the provision of Government Code Section 56375(m), to waive the restrictions on the creation of a totally surrounded island contained within Government Code Section 56744 because it would be detrimental to the orderly development of the community, and it further determines that the area to be surrounded cannot reasonably be annexed to another city or incorporated as a new city.

**SECTION 3.** <u>DETERMINATIONS.</u> The following determinations are required to be provided by Commission policy and Government Code Section 56668:

- 1. The reorganization area is legally uninhabited containing zero registered voters as certified by the Registrar of Voters as of November 1, 2018.
- 2. The County Assessor's Office has determined that the total assessed valuation of land within the reorganization area is \$11,775,061 as of August 2, 2018, broken down as: \$11,033,461 (land) and \$741,600 (improvements).
- 3. The reorganization area is within the sphere of influence assigned the Town of Apple Valley.
- 4. Legal notice of the Commission's consideration of the proposal has been provided through publication in the *Daily Press*, a newspaper of general circulation within the area. As required by State law, individual notification was provided to affected and interested agencies, County departments, and those individuals and agencies having requested such notice.
- 5. In compliance with the requirements of Government Code Section 56157 and Commission policies, LAFCO staff has provided individual notice to:
  - landowners (206) and registered voters (0) within the reorganization area (totaling 206 notices); and,
  - landowners (220) and registered voters (23) surrounding the reorganization area (totaling 243 notices).

Comments from registered voters, landowners, and other individuals and any affected local agency in support or opposition have been reviewed and considered by the Commission in making its determination.

- 6. The Town of Apple Valley has assigned the reorganization area pre-zone land use designations as a part of its 2009 General Plan Update, which include the following: Estate Residential (1 unit/1 to 2.5 acres), General Commercial (retail and services), Regional Commercial (retail, services, restaurant, and hotel/motel), Office Professional (office and ancillary retail), and Planned Industrial (warehousing, light manufacturing, research/development, and administrative). These zoning designations are consistent with the Town's General Plan and is generally compatible with the surrounding land uses in the area. The Town's pre-zone designations will remain in effect for a minimum of two years following annexation unless specific actions are taken by the Town Council.
- 7. The Southern California Associated Governments ("SCAG") adopted its 2016-2040 Regional Transportation Plan and Sustainable Communities Strategy pursuant to Government Code Section 65080. LAFCO 3229 includes the eastern portion of the I-15 Freeway, which is part of the RTP-SCS's State highway improvement (expansion/rehabilitation) program including reconstruction of Stoddard Wells Road Overcrossing and as well as Stoddard Wells Road.
- 8. An Addendum to the Environmental Impact Report (SCH#2008091077) was prepared and certified by the Town of Apple Valley for its 2009 General Plan and Annexation 2008-001. The Commission, its staff, and its Environmental Consultant have independently reviewed the Town's General Plan Environmental Impact Report and Addendum.

The Commission certifies that it has considered the Town's General Plan Environmental Impact Report and the Addendum and the environmental effects as outlined in the Addendum prior to reaching a decision on the project and finds the information substantiating the Addendum adequate for the reorganization decision as a CEQA responsible agency. The Commission further finds that it does not intend to adopt alternatives or additional mitigation measures for this project as all changes, alternations, and mitigation measures are within the responsibility and jurisdiction of the Town and/or other agencies and not the Commission, and find that it is the responsibility of the Town to oversee and implement these measures.

The Commission directs its Executive Officer to file a Notice of Determination within five (5) days within the San Bernardino County Clerk of the Board of Supervisors. The Commission, as a responsible agency, also notes that this proposal is exempt from the California Department of Fish and Wildlife fees because the fees were the responsibility of the Town of Apple Valley as a CEQA lead agency.

9. The reorganization area is served by the following local agencies: Apple Valley Fire Protection District, County of San Bernardino, County Service Area 60 (airport), County Service Area 70 (unincorporated County-wide multi-function), Mojave Desert Resource Conservation District (portion), Mojave Water Agency.

County Service Area 70 will be detached upon successful completion of this proposal. None of the other agencies will be directly affected by the completion of this proposal through an adjustment in their boundaries as they are regional in nature.

10. The Town of Apple Valley has submitted a plan for the extension of municipal services to the study area as required by Government Code Section 56653, which indicate that the Town of Apple Valley can, at a minimum, maintain the existing level of service delivery and can improve the level and range of services currently available in the area.

The Plan for Service and Fiscal Impact Analysis have been reviewed and compared with the standards established by the Commission and the factors contained within Government Code Section 56668. The Plan for Service and the Fiscal Impact Analysis conform to those adopted standards and requirements.

11. The reorganization proposal complies with Commission policies that indicate the preference for areas proposed for development at an urban-level land use to be included within a Town or City so that the full range of municipal services can be planned, funded, extended and maintained.

However, the approval of this proposal will create an island of unincorporated territory to be totally surrounded by the Town. Based on the termination of LAFCO 3169 in 2012 due to registered voter protest, LAFCO 3229 cannot be expanded to eliminate the island area without the risk of termination again.

- 12. The reorganization area can benefit from the availability and extension of municipal services from the Town of Apple Valley upon future development.
- 13. This proposal will assist the Town of Apple Valley's ability to achieve its fair share of the regional housing needs as the land use designation include Estate Residential, which allows one unit to 2.5 acres.
- 14. With respect to environmental justice, which is the fair treatment of people of all races, cultures, and incomes with respect to the location of public facilities and the provision of public services, the following demographic and income profile was generated using ESRI's Community Analyst within the Town of Apple Valley and within and around the reorganization area (2018 data):

Demographic and Income Comparison	Town of Apple Valley (%)	Reorganization Area and Unincorporated Sphere (%)
Race and Ethnicity		
<ul> <li>African American Alone</li> </ul>	9.3 %	8.5 %
<ul> <li>American Indian Alone</li> </ul>	1.2 %	0.8 %
<ul> <li>Asian Alone</li> </ul>	3.4 %	5.9 %
<ul> <li>Pacific Islander Alone</li> </ul>	0.5 %	0.8 %
<ul> <li>Hispanic Origin (Any Race)</li> </ul>	39.5 %	25.4 %
Median Household Income	\$55,261	\$82,990

Through future development, the reorganization area will benefit from the extension of services and facilities from the Town and, at the same time, the approval of the

reorganization proposal will not result in the unfair treatment of any person based on race, culture or income.

- 15. The County of San Bernardino and the Town of Apple Valley have successfully negotiated a transfer of property tax revenues that will be implemented upon completion of this annexation. This fulfills the requirements of Section 99 of the Revenue and Taxation Code.
- 16. The map and legal description, as revised, are in substantial compliance with LAFCO and State standards through certification by the County Surveyor's Office.

**SECTION 4.** Approval by the Local Agency Formation Commission indicates that completion of this proposal would accomplish the proposed change of organization in a reasonable manner with a maximum chance of success and a minimum disruption of service to the functions of other local agencies in the area.

**SECTION 5.** The Executive Officer is hereby authorized and directed to mail certified copies of this resolution in the manner provided by Section 56882 of the Government Code.

**SECTION 6.** The Commission hereby directs that, following completion of the reconsideration period specified by Government Code Section 56895(b), the Executive Officer is hereby directed to initiate protest proceedings in compliance with this resolution and State law.

**SECTION 7**. Upon conclusion of the protest proceedings, the Executive Officer shall adopt a resolution setting forth his determination on the levels of protest filed and not withdrawn and setting forth the action on the proposal considered.

**SECTION 8**. Upon adoption of the final resolution by the Executive Officer, either a Certificate of Completion or a Certificate of Termination, as required by Government Code Sections 57176 through 57203, and a Statement of Boundary Change, as required by Government Code Section 57204, shall be prepared and filed for the proposal.

THIS ACTION APPROVED AND ADOPTED by the Local Agency Formation Commission for San Bernardino County by the following vote:

AYES: COMMISSIONERS:

NOES: COMMISSIONERS:

**ABSENT: COMMISSIONERS:** 

\*\*\*\*\*\*\*\*\*

STATE OF CALIFORNIA	
	) ss.
COUNTY OF SAN BERNARDIN	IO )
Commission for San Bernardino Cou full, true, and correct copy of the acti	Executive Officer of the Local Agency Formation inty, California, do hereby certify this record to be a ion taken by said Commission by vote of the members Official Minutes of said Commission at its regular
DATED:	
	SAMUEL MARTINEZ
	Executive Officer