



# Laguna Niguel

CALIFORNIA

## CITY OF LAGUNA NIGUEL CEQA MANUAL

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## 1.0 Purpose and Regulatory Authority

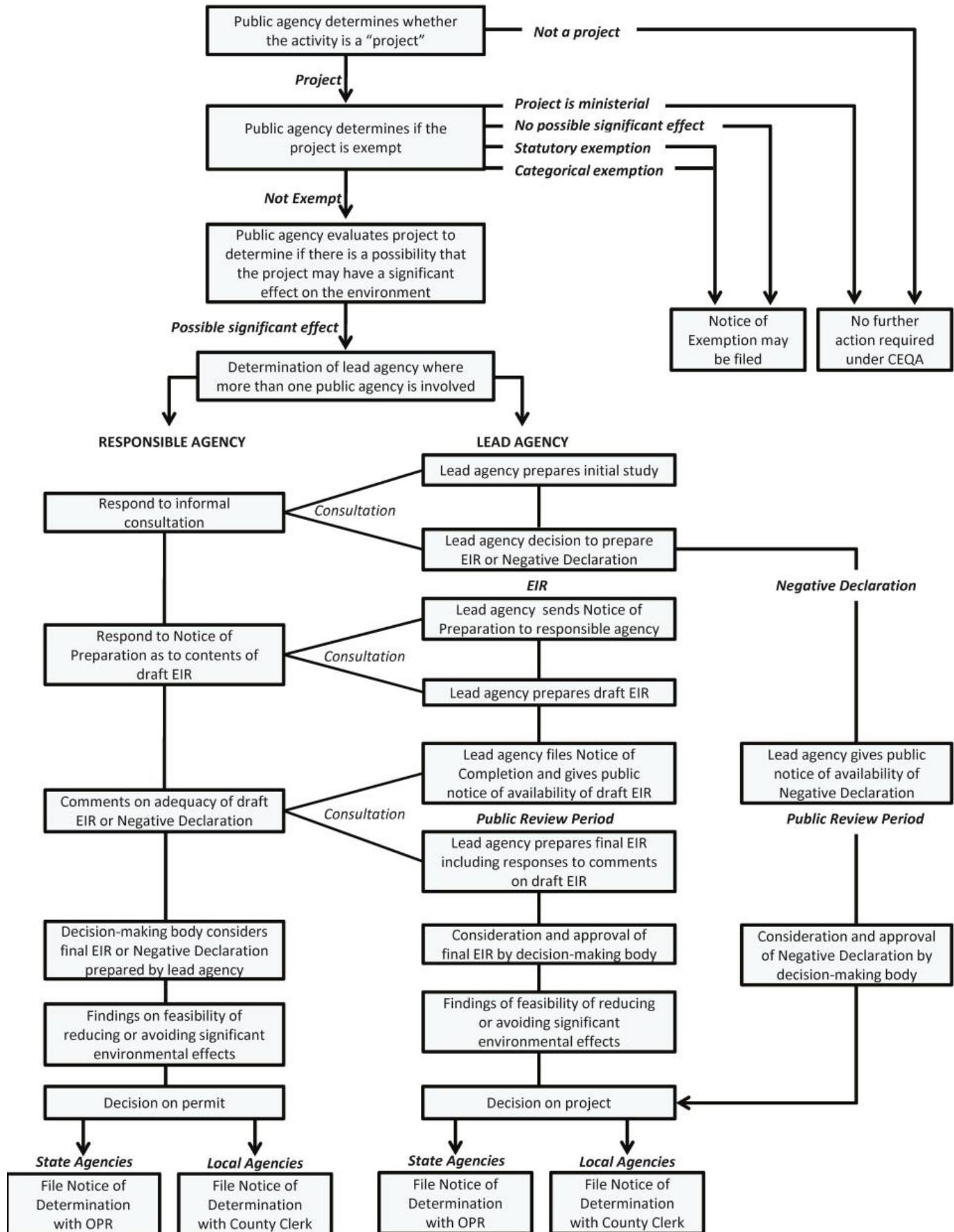
The purpose of this California Environmental Quality Act (CEQA) (Manual) is to provide the City and project applicants (Applicants) with local guidelines, procedures, requirements, and thresholds of significance for the environmental review process within the City of Laguna Niguel consistent with the California Environmental Quality Act (Public Resources Code [PRC] Section 21000 et seq.), referred to as “CEQA” or “CEQA Statutes,” and the State CEQA Guidelines (Title 14, California Code of Regulations (CCR), Division 6, Chapter 3, Section 15000 et seq.).

The purpose of CEQA is to disclose the impacts and effects on the environment from a project in a manner that is understandable to the public and decision-makers; to identify ways to avoid or significantly reduce environmental damage; to prevent significant, avoidable damage through use of alternatives and feasible mitigation measures; and to disclose reasons for approval of a project. While CEQA and the CEQA Guidelines are inherently technical and legal, this Manual is not intended to restate the technical and legal requirements, but to provide residents, businesses, consultants, and applicants with clear guidance on the environmental review process within the limits of Laguna Niguel.

In order to implement CEQA, PRC Section 21082 requires public agencies to adopt local environmental review guidelines. State CEQA Guidelines Section 15022(a) requires that each public agency adopt “objectives, criteria, and specific procedures consistent with CEQA and these Guidelines for administering its responsibilities under CEQA...” Furthermore, Section 15064.7 of the State CEQA Guidelines encourages each public agency in California to develop and publish thresholds of significance. This Manual serves to augment and implement those procedures contained in CEQA or CEQA Statutes, and the State CEQA Guidelines.

The City may update this Manual periodically to account for amendments to CEQA or the Guidelines, changes to the primary thresholds of significance, and/or to ensure best practices are being applied to environmental review of projects. This Manual contains procedures, requirements, formats, and methodologies for the environmental review process that apply to the vast majority of projects; however, there may be unique circumstances where the Community Development Director may use his or her discretion to deviate from this Manual if necessary, in order to comply with CEQA or the State CEQA Guidelines. Additionally, this Manual is not intended to be exhaustive and therefore the City reserves the right to request additional project specific information in its evaluation that may not be identified or described in this Manual. The Community Development Director may also adopt departmental policies and procedures to further implement the provisions of CEQA, the State CEQA Guidelines and this Manual.

**Appendix A** of the CEQA Guidelines include a CEQA Process Flow Chart. This Flow Chart is included as **Figure 1** of this Manual for reference. The CEQA process outlined in the Flow Chart applies to projects within the City of Laguna Niguel, as augmented by this Manual.



Source: CEQA Guidelines - Appendix A (2021).

## Figure 1 CEQA Process Flow Chart

## **2.0 Applicability**

This Manual applies to all public and private projects under the jurisdiction of the City of Laguna Niguel that constitute a “project” and therefore subject to CEQA review. The definition of “Project” can be found in PRC Section 21065 and CEQA Guidelines Section 15378. In most cases, a project subject to CEQA is one that would cause either a direct or indirect adverse physical change to the environment or requires a discretionary action by the City. Additionally, CEQA applies to governmental action, including any activity directly undertaken by a public agency and any activity financed in whole or in part by a public agency.

## **3.0 Incorporation by Reference**

In conjunction with the adoption of this Manual, the State CEQA Guidelines (Title 14, California Code of Regulations (CCR), Division 6, Chapter 3, Section 15000 et seq.) are hereby incorporated by reference in accordance with Section 15022 (d) of the CEQA Guidelines. All future revisions to CEQA and the State CEQA Guidelines shall hereafter be considered to be a part of this Manual without further action by the City Council. In the event of any inconsistency or conflict between the provisions of this Manual and the State CEQA Guidelines, the provisions of the State CEQA Guidelines shall take precedence.

## **4.0 Environmental Review Process**

### **A. City as Lead Agency or Responsible Agency**

Under CEQA, the “lead agency” has the principal responsibility for carrying out or approving a project, and shall prepare the environmental documents for a project. (CEQA Guidelines Section 15367.) The City shall act as the lead agency for any privately-initiated or City-sponsored projects. As lead agency, the City shall direct the preparation of an Initial Study, Negative Declaration (ND), Mitigated Negative Declaration (MND), or Environmental Impact Report (EIR) for a project. The City may select a consultant in directing the preparation of the environmental documentation in accordance with this Manual. All environmental documentation shall be completed to the satisfaction of the City and shall reflect the City’s independent judgment and analysis.

### **B. Decision-Making Authority**

As used in this Manual, “decision-making authority” means the body or individual designated by the Laguna Niguel Municipal Code (LNMC) or state statute to make a decision approving or disapproving a project, and includes the Laguna Niguel City Council, Planning Commission, Subdivision Committee or Community Development Director. In accordance with CEQA and the CEQA Guidelines, all decisions shall be based on the decision-making authority’s review of the record, including but not limited to any technical studies, and comments submitted and responses to comments, and its independent judgment and analysis.

### **C. Community Development Department**

The primary responsibility for implementing CEQA, as specified in the State CEQA Guidelines and this Manual, is the Community Development Department. The Community Development Director, or designee, shall be responsible for coordinating CEQA compliance for private development projects and for projects initiated or authorized by other City departments (in cooperation with that department). In accordance with this Manual and other City Council-established policies, the Community Development Department may rely on City staff and/or outside consultants for the preparation of environmental documents, review of supporting technical reports, and processing project applications that require environmental review, as further described in this Manual.

## D. Project Applications

Project applicants (Applicant(s)) must submit an application to the Community Development Department to initiate the planning and environmental review process for a project. The application shall comprehensively describe all proposed on-site and off-site construction and operational activities. The application shall be accompanied by: project plans, a comprehensive written description of the proposal, processing fees/deposits, and addition items/technical reports, if determined necessary based on the project scope. Community Development Department Staff (Staff) will review the project application to determine if it is a “project” within the meaning of CEQA, and whether the application is complete<sup>1</sup> or if additional information is necessary, in accordance with timing requirements established under CEQA and the Permit Streamlining Act. Staff will determine if an application is sufficiently complete to begin the CEQA review process.

All costs for the preparation and administration of environmental review for private projects shall be paid by the project applicant. Requests for early consultation should be directed to the Community Development Director or his or her designee.

When the City plans to carry out a nonexempt public project, the responsible City department will participate in the environmental review process in a manner similar to that for private project applicants. All environmental documentation shall be prepared by the responsible department (or under the direction of that department), in coordination with the Community Development Director or his or her designee. This coordination is intended to ensure consistency between the processing of private projects and the processing of public projects. Public projects are not generally subject to mandatory time frames for processing.

## E. Exemptions from CEQA

Once Staff determines that an activity is a project subject to CEQA, Staff will then determine whether the project is exempt from the requirements of CEQA. CEQA has identified two primary categories of projects determined to be exempt from CEQA.

### *i. Statutory Exemptions*

Statutory exemptions consist of specific types of projects determined by the State Legislature to be exempt from environmental review and listed in the CEQA Statutes.

### *ii. Categorical Exemptions*

Categorical exemptions are categories or classes of projects that are exempt from the environmental review process because they have been found generally incapable of causing significant environmental effects or requiring mitigation. However, there may be cases where unusual circumstances cause a project that would otherwise qualify for a categorical exemption to be subject to more extensive environmental review.

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<sup>1</sup> The Laguna Niguel Discretionary Permit Application Packet [<https://cityoflagunaniguel.org/DocumentCenter/View/750/201---Discretionary-Permit-Application>] contains a list of items that must be included with a project application. City Staff will review the application and either deem it complete or incomplete. If deemed incomplete, Staff will provide the Applicant in writing a list of what additional information and/or submittal items are necessary to deem the application complete (Notice of Incompleteness). Once Staff has received all necessary information to process the application, Staff will provide notice in writing the application has been deemed complete (Notice of Completeness).

Pursuant to CEQA Guidelines Section 15300.2, a project does not qualify for a categorical exemption if:

- » The project may impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted by law;
- » The project would cause significant cumulative impacts;
- » There is a reasonable possibility the project could cause significant impacts to the environment;
- » The project would cause damage to scenic resources within a designated state scenic highway;
- » The project is located on a site that is included on any list compiled pursuant to Section 65962.5 of the Government Code; or
- » Cause a substantial adverse change in the significance of a historical resource.

In certain cases, Staff may also determine a project is exempt from CEQA based on the “Common Sense” exemption. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA (CEQA Guidelines Section 15061(b)(3)).

**Table 1** below summarizes the types of CEQA Exemptions.

**Table 1. CEQA Exemptions**

Types of Exemptions	Statutory Reference
<p><b>Statutory Exemptions</b></p> <p>Statutory exemptions are granted by the California Legislature for individual or classes of projects and apply regardless of the environmental impacts of the project. For these projects, California Legislature has determined that the benefits of these projects to the state or a particular community outweigh the benefits of complying with CEQA. There are approximately 23 projects that fall under the Statutory Exemptions.</p>	<p>State CEQA Guidelines, Sections 15260 through 15285.</p> <p>Additional statutory exemptions can be found in the Governor’s Office of Planning and Research’s 2018 “Technical Advisory CEQA Exemptions Outside of the CEQA Statute”.</p>
<p><b>Categorical Exemptions</b></p> <p>Categorical exemptions are classes of projects exempted from CEQA because the California Secretary of Natural Resources has determined that they typically do not have substantial impacts on the environment. There are 33 types of projects that fall under the categorical exemption. Projects that qualify for categorical exemptions must determine that stated exceptions do not apply.</p>	<p>CEQA Guidelines Sections 15300 through 15333.</p> <p>Exceptions to Categorical Exemptions: State CEQA Guidelines Section 15300.2.</p>
<p><b>Common Sense Exemption</b></p> <p>The common sense exemption applies to projects that don’t necessarily fit within a statutory or categorical exemption, but “where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment”. A determination that the common sense exemption applies must be supported with factual evidence.</p>	<p>CEQA Guidelines Section 15061(b)(3).</p>

Types of Exemptions	Statutory Reference
<b>Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects</b> Projects must meet specific threshold requirements outlined in the statute and be supported with factual evidence.	CEQA Guidelines Sections 15191 to 15196. Threshold requirements: CEQA Guidelines Section 15192.

**Source:**  
 2019 CEQA Statute and Guidelines. Available: [https://resources.ca.gov/CNRALegacyFiles/ceqa/docs/2019\\_CEQA\\_Statutes\\_and\\_Guidelines.pdf](https://resources.ca.gov/CNRALegacyFiles/ceqa/docs/2019_CEQA_Statutes_and_Guidelines.pdf). Accessed: February 2021.

### *iii. Notice of Exemption*

If Staff determines that a project qualifies for an exemption, Staff will prepare a written justification (e.g., memo, within a staff report, and/or Resolution) documenting why the project qualifies for the exemption. Staff will rely on the project description to explain proposed activities and provide the rationale why those activities qualify for the exemption. Any additional evidence available to Staff documenting that no significant impacts to the environment would occur should be included in the justification. This justification will be included along with Staff's recommended action to the decision-making authority.

Following approval of the exempt project, the City may but is not required to file a Notice of Exemption (NOE) with the Office of the Orange County Clerk-Recorder. The NOE may be prepared by the Applicant, at the Applicant's option, or by Staff. If the option is offered by the County Clerk, the NOE must be filed electronically. The applicant must pay the filing fees and either Staff or the Applicant will file the NOE with the Orange County Clerk-Recorder (County Clerk). If the Applicant files the NOE with the County Clerk, the Applicant must also provide a conformed copy to Staff certifying that the NOE was filed and date of filing. The County Clerk shall post the NOE for 30 days and return the NOE to the City.

In certain types of projects, CEQA requires that the City must file an NOE with the State Clearinghouse after it approves the project, including projects for agricultural housing, affordable housing, or residential infill projects. (CEQA Guidelines 15193, 15194, 15195 and 15196).

The filing with and posting of the NOE by the Clerk begins a 35-day statute of limitations period on legal challenges (CEQA Guidelines Sections 15062 and 15112).

## **F. Initial Study**

If Staff determines a project is subject to CEQA and not statutorily or categorically exempt, an Initial Study (IS) must be prepared in accordance with CEQA Guidelines Section 15063 to determine if the project will have a significant effect on the environment, unless Staff has determined an EIR is clearly required, as discussed in the following section. For preparation of an Initial Study, the City will evaluate the information and documentation provided by the Applicant in its application and an analysis of the thresholds of significance and other factors in the checklist contained in the most recent version of Appendix G of the CEQA Guidelines. A copy of the Appendix G Checklist is attached to this Manual as **Appendix A**.

Initial Studies will be prepared either by Staff or Staff may elect to hire an outside consultant at the Applicant's expense. Staff will only initiate preparation of an Initial Study following receipt of an application deemed complete, which shall include a comprehensive description of the proposed project and plans detailing project activities.

An Initial Study may serve several purposes for projects within the City. Staff will determine the use and content of an Initial Study, as follows:

- » Preliminary Analysis. An Initial Study is often used as a preliminary analysis to determine whether a project may have a significant effect on the environment or whether environmental effects can be reduced to less than significant levels. This in turn determines the type of environmental document that is required; either a Negative Declaration (ND), Mitigated Negative Declaration (MND), or an Environmental Impact Report (EIR).
- » Support a ND or MND. For projects that would not cause a significant environmental impact, the Initial Study may be used to justify the issuance of a ND or MND. Technical studies, which may be prepared by the Applicant as discussed below, or other evidence, must be presented as part of the Initial Study to justify the conclusion no significant impacts would occur.
- » Determine the Scope of an EIR. When the City has determined an EIR is necessary, an Initial Study may be used, but is not always required, to scope an EIR and/or focus the EIR on the effects determined to be significant. Evidence must be provided in the Initial Study to justify effects determined not to be significant and therefore, not necessary to analyze in an EIR, if the IS serves that purpose.

*i. Negative Declaration or Mitigated Negative Declaration*

If preparation of an Initial Study determines there is no evidence the project may have a significant impact on the environment, and unless Staff has determined an EIR is clearly required, the City will prepare an ND for projects that do not cause significant impacts or an MND for projects that require mitigation to reduce impacts to less than significant. Staff will provide the appropriate notices consistent with the CEQA Guidelines and distribute the draft Initial Study/Negative Declaration (IS/ND) or Initial Study/Mitigated Negative Declaration (IS/MND) for public review. Additionally, Staff shall post on the City's website. The public review period shall be thirty (30) days as established in this Manual as City policy consistent with CEQA Guidelines Section 15073(a). CEQA provides for a shortened review period in accordance with CEQA Guidelines Section 15105 and approval by the State Clearinghouse, however, a shortened review period is inconsistent with City policy and would only be considered in unique circumstances.

As established by this Manual, all public comments on an Initial Study received during the public comment period shall be responded to in writing. All responses to public agency comments shall be provided to the commenting party at least ten (10) days prior to final action on the ND or MND. It should be noted that comments that only present an opinion on the project, in favor or against, or are beyond the scope of the environmental document, will only be acknowledged as received and no further detailed response will be provided.

Within five (5) working days of the final approval of a project for which a ND or MND is prepared, a Notice of Determination (NOD) shall be filed with the County Clerk. The NOD may be prepared and filed by the Applicant, at the Applicant's option, or by Staff, in accordance with CEQA Guidelines Section 15075. If the option is offered by the County Clerk, the NOD must be filed electronically. The Applicant is responsible to pay for the filing fees and California Department of Fish and Game fees (California Fish and Game Code Section 711.4(d)(2)), as applicable, prior to the filing of the NOD. If the Applicant files the NOD with the County Clerk, the Applicant must also provide a conformed copy to Staff certifying its filing of the NOD. Filing with and posting of the NOD by the Clerk begins a 30-day statute of limitations period on legal

challenges (CEQA Guidelines Section 15075(g)). Failure to file the NOD extends the statute of limitations for legal challenge to 180 days pursuant to CEQA Guidelines Section 15075 and 15112.

*ii. Environmental Impact Report (EIR)*

An EIR is required if 1) through preliminary review or an Initial Study the proposed activity would cause one or more significant impacts, or 2) if the City determines that an EIR will clearly be required for the project (CEQA Guidelines Section 15063).

Preparation of an EIR will be done by a consultant selected by the City at the Applicant's expense. Staff will only initiate preparation of an EIR following receipt of an application deemed complete, which shall include a comprehensive description of the proposed project and plans detailing project activities, and payment of all required fees and deposits. Following receipt of a complete application, Staff will distribute a Request for Proposals to a list of environmental consultants deemed qualified by Staff. Staff will review all proposals and in its sole discretion select a consultant to prepare the EIR.

The following is not meant to be a comprehensive description of the EIR process or cover all types of EIRs, such as Program, Subsequent, Supplemental, and Addendum. The EIR process shall be conducted in accordance with CEQA and the CEQA Guidelines. Instead, below is a list providing examples of components of a typical EIR process that warrant further explanation of local procedures.

- *Project Objectives.* The Applicant and City will work cooperatively to create project objectives. In some cases, the objectives between the City and Applicant might be different, in which case there could be two sets of project objectives.
- *Mailing List and Labels.* The Applicant shall be responsible for providing to Staff at least four (4) sets of mailing labels prepared by either a Title Company or qualified party that include all property owners and tenants within a 300-foot radius of the perimeter of the project site boundaries.
- *Public Notices.* The City provides public notice of a project by all of the following methods:
  - » Publish in a local newspaper;
  - » Post on the City's website; and
  - » Direct mailing to:
    - The owner of the subject real property.
    - The owner's authorized agent, if any.
    - The project applicant.
    - Each local agency expected to provide water, sewage, street, roads, schools or other essential facilities or services to the project.
    - All owners of real property as shown on the last equalized assessment roll within 300 feet of the subject real property. If the number of owners to whom notice would be mailed is greater than 1,000 feet, the City may instead place a display advertisement of at least one-eighth page in a newspaper of general circulation at least ten (10) days prior to the hearing.

The City typically uses the *Orange County Register - Coastal Current News* as its newspaper of local circulation for public notices. Notices must be published at least 10 days in advance of a

public hearing. The draft notice must be delivered to the newspaper on the Wednesday not less than ten (10) days prior to the publication date of the notice. For example, if the notice must be published on a Friday, the draft notice must be submitted to the newspaper by the Wednesday of the preceding week.

Staff will only submit a draft notice to the newspaper if all requested materials have been received in final form. Staff cannot submit a notice if projects materials are continuing to be revised.

- *Notice of Preparation and Public Comment Period.* The publication, mailing, and emailing of the Notice of Preparation (NOP) establishes a 30-day public comment period for responsible agencies, residents and other interested parties to submit comments. Publication of the NOP shall include posting on the City's website. Following distribution of the NOP for the 30-day public comment period, Staff will conduct a Scoping Meeting. The Scoping Meeting will be held at City Hall and led by Staff and the City's environmental consultant. The meeting will be held in the middle of the 30-day comment period. Comments on the NOP received during the Scoping Meeting and during the public comment period will be presented in the Draft EIR along with written responses.
- *Project Alternatives.* The Applicant and Staff will work on defining a reasonable range of project alternatives. The project alternatives shall be designed to reduce or eliminate significant impacts. Additional project alternatives may be included that do not focus on reducing or eliminating significant impacts but are developed to provide decision-makers with a broader understanding of project options and the corresponding environmental consequences.
- *Draft EIR.* CEQA requires that all conclusions presented in a draft EIR be justified with evidence in the record. Furthermore, all mitigation measures must be feasible, implementable, enforceable, and demonstrate a reduction in environmental impacts. Draft EIRs must be written in an understandable format for the public and decision-makers and explain the environmental effects of a project instead of only reciting the technical studies. Lastly, the analysis in the EIR must be comprehensive, objective, and represent the City's independent judgment.

Preparation of an EIR starts with a Screencheck Draft, also referred to as an Administrative Draft. The City's environmental consultant will prepare a Screencheck Draft EIR for Staff review. Staff shall review the document for approach, substance, accuracy, objectivity, contract compliance, errors or omissions, conformity to regulatory requirements, and to ensure that the draft document ultimately circulated for public and agency review reflects the independent judgment of the City. Staff will provide a comprehensive set of comments on the Screencheck Draft to the environmental consultant, including comments from the Applicant that Staff deems appropriate. The environmental consultant will incorporate all comments and provide a second Screencheck Draft for Staff review. Staff will then determine if all comments have been addressed adequately or if another round of Screencheck Draft review and comments are necessary. It is Staff's decision when the Screencheck Draft EIR is ready to be finalized into a Draft EIR ready for public review.

Screencheck Draft EIRs are to be retained by the City for the limited time necessary to accomplish the review described above. At the end of that period, Screencheck Drafts are to be returned to the consultant for final editing or discarded. No Screencheck Draft documents are to be kept in

the project files. Screencheck Draft documents are not a part of the record of proceedings and are not considered a “public document” for the purposes of the Public Records Act or CEQA. The public review period for a Draft EIR shall be 45 days.

Staff and the environmental consultant will be responsible for all notices, such as Notice of Completion (NOC) and Notice of Availability (NOA). The NOC must be filed with the Office of Planning and Research (OPR) along with the Draft EIR. Filing with OPR starts the public review period. Filing is done electronically according to OPR’s procedures. Concurrent with the NOC, Staff shall distribute the NOA to notify responsible and trustee agencies and other members of the public of the availability of the Draft EIR for public review. The NOA shall be distributed in the same manner as the NOP described previously.

- *Final EIR.* All comments received on the Draft EIR during the public comment period shall be responded to in writing. It should be noted that comments that only present an opinion on the project, in favor or against, or are beyond the scope of the environmental document, will only be acknowledged as received and no further detailed response will be provided. The Final EIR shall include the Draft EIR, written responses to all comments, and any errata to the Draft EIR necessary based on comments received. In accordance with CEQA Guidelines Section 15088(b), a written response to comments received from a public agency on the Draft EIR shall be provided to that public agency at least ten (10) days prior to certifying the EIR.
- *Mitigation Monitoring and Reporting Program.* For all projects, a Mitigation Monitoring and Reporting Program (MMRP) shall be prepared summarizing all significant adverse environmental effects and required mitigation measures. The MMRP shall identify all required mitigation measures, standard conditions, and project design features; the timing of each; and the responsible party for each. The MMRP shall be prepared in a matrix format. A Draft Mitigation Monitoring Program shall be part of any Final EIR prepared by or for the City as lead agency. A Final Mitigation Monitoring Program shall be adopted with all project approvals for which an EIR has been certified or a Mitigated Negative Declaration adopted. Adopted Mitigation Monitoring Programs shall be distributed to all agencies or parties with monitoring or review responsibility defined in the Program.
- *Statement of Overriding Considerations and Findings.* For a project being considered by the decision-making authority that has any unavoidable significant impact(s), a Statement of Overriding Considerations and Findings of Fact must be prepared. The Statement of Overriding Considerations must justify that the benefits to move forward with a project outweigh the unavoidable significant impact(s). Written findings for any significant impacts shall be prepared consistent with CEQA Guidelines 15091. The Statement of Overriding Considerations may be prepared by Staff or by the City’s environmental consultant. If prepared by the City’s environmental consultant, Staff shall exercise its independent judgment in reviewing the proposed findings prior to submittal of the Final EIR and project to the decision-making authority.
- *Certification of Final EIR, Findings and Project Decision.* The decision-making authority, as specified by the Municipal Code or state statute, shall review, consider, and certify the Final EIR including the proposed Mitigation Monitoring and Reporting Program and Statement of

Overriding Considerations at a public hearing before approving the project. Prior to approving a project, but after or concurrent with certification, the decision-making authority shall make one or more written findings for any significant effects identified in the Final EIR and proposed Statement of Overriding Considerations. Such findings shall be in compliance with CEQA Guideline 15091. If the decision-making authority disapproves the project, no CEQA findings or determinations need be made.

- *Notice of Determination.* Within five (5) working days of the final approval of a project for which a EIR is prepared, a Notice of Determination (NOD) shall be posted on the City's website and filed with the County Clerk. The NOD may be prepared and filed by the Applicant, at the Applicant's option, or by Staff, in accordance with CEQA Guidelines Section 15075. If the option is offered by the County Clerk, the NOD must be filed electronically. The Applicant is responsible to pay for the filing fees and California Department of Fish and Game fees (California Fish and Game Code Section 711.4(d)(2)), as applicable, prior to the filing of the NOD. Filing with and posting of the NOD by the County Clerk begins the 30-day statute of limitations period on legal challenges (CEQA Guidelines Section 15075(g)). Failure to file the NOD extends the statute of limitations for legal challenge to 180 days pursuant to CEQA Guidelines Section 15075 and 15112.

## 5.0 Technical Studies

Initial Studies and EIRs are almost always accompanied by supporting technical studies. Technical studies often provide the evidence in the record used to justify conclusions presented in the environmental document. Unless otherwise specified by the Community Development Director, Applicants are permitted to prepare technical studies for a project. All technical studies prepared for a project shall be reviewed and approved by Staff and its consulting team. The acceptance and approval of the technical studies shall represent the City's independent judgment of the studies.

## 6.0 Environmental Topics

The term "environmental topics" refers to those topics listed in Appendix G of the CEQA Guidelines, which the City hereby adopts and incorporates into its local procedures with modifications. Appendix G provides a sample list of environmental topics presented in the form of questions that are used to identify the potential impacts of proposed projects. Not every topic or question is applicable to every project. With adoption of this Manual, the City has tailored the list of topics and questions to represent the resources and issues of concern to the City.

A threshold of significance is an identifiable quantitative, qualitative, or performance-based metric for a particular environmental impact. In addition to listing environmental topics that should be analyzed in environmental documents, Appendix G establishes some thresholds of significance to determine whether a project causes a significant or less than significant impact for each environmental topic. Although the checklist questions in Appendix G are generally coterminous with thresholds, in many instances the checklist questions define the environmental impact to be addressed but do not define a quantitative, qualitative, or performance-based threshold of significance. This section of the Manual is designed to augment Appendix G by providing guidance and expectations on how the environmental topics should be analyzed and more clarity as to the quantitative, qualitative, or performance-based threshold of significance than contained in Appendix G.

## A. Aesthetics and Scenic Resources

The name of this topic has been changed to *Aesthetics and Scenic Resources* to represent the importance of scenic resources to the City, as promoted by the City's Hillside Protection Ordinance and the mapped Landscape Corridors in the Laguna Niguel General Plan. The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to aesthetics, as augmented below.

Scenic resources refer to aesthetically pleasing natural and man-made physical features. Important scenic resources in and around Laguna Niguel include hillsides, ridgelines, and waterways. Scenic vistas are viewsheds that include scenic resources. The City has not mapped or identified scenic resources city-wide, therefore, each individual project site must be studied. Ridgelines within the City are important scenic resources and the City's Hillside Protection Ordinance, LNMC Section 9-1-80, et sec. includes regulations designed to minimize impacts to ridgelines and minimize visual impacts associated with hillside grading. Therefore, if a project is located in a hillside condition, the aesthetics analysis must include an assessment of consistency with the City's Hillside Protection Ordinance to determine if impacts are less than significant.

Private views are not protected under CEQA or by local ordinance. Therefore, the aesthetics analysis shall only focus on views from public locations. If a project site has a potential scenic resource, but that resource is not visible from public locations, no significant impact to that resource would occur. If a project has the potential to block private views of scenic resources, no significant impact would occur.

The Laguna Niguel General Plan has mapped Landscape Corridors within the City on Figure OS-3, included in this Manual as **Figure 2**. Landscape Corridors have been "designated for special treatment to provide a pleasant driving environment as well as community enhancement." Projects that fall within a Landscape Corridor shall be analyzed for impacts to a landscape corridor. No state scenic highways are located within the City.

Staff requires visual simulations prepared by a qualified architect or visual consultant for all new or redevelopment projects and therefore, the visual simulations should be incorporated into the CEQA analysis as a tool to determine the level of significance of impacts. Projects with only interior or subsurface work that have no potential to impact scenic resources are exempt from the requirement. Visual simulations must accurately computer model future conditions to be acceptable for comparison with existing conditions. Publicly accessible viewpoint locations must be identified and approved by Staff. All viewpoints shall occur from public locations. Private viewpoints are not required or sufficient. Photographs of the project site from the approved viewpoint locations must be taken at a focal length that approximates human vision. The exact horizontal and vertical location of the viewpoint must be recorded. The visual simulation analysis shall include computer modeling of the proposed project by incorporating the proposed grading plans, building elevations and architecture, and landscape plans. The visual simulations must accurately depict all aspects of future conditions. The use of architectural renderings or architectural modeling such as SketchUp may be very useful during the entitlement process, but do not satisfy the requirement for visual simulations based on accurate computer modeling comparing the existing and future conditions.

Light and glare impacts must be considered in the aesthetics analysis. Lighting typical of a residential development, such as downward directed streetlights and decorative house lighting, are not considered significant impacts. However, projects that incorporate other sources of light, signage, or reflective materials, must be analyzed to determine if significant light and glare impacts could occur.

A project may require a shade and shadow analysis if the project has the potential to cast new shadows on existing neighboring properties. This condition could occur as a result of topographic changes to a site or the location and height of new structures. Appendix G does not directly establish a threshold of significance for potential shading/shadowing impacts; therefore, the following threshold is hereby established:

A project would have a significant impact on the environment if it would:

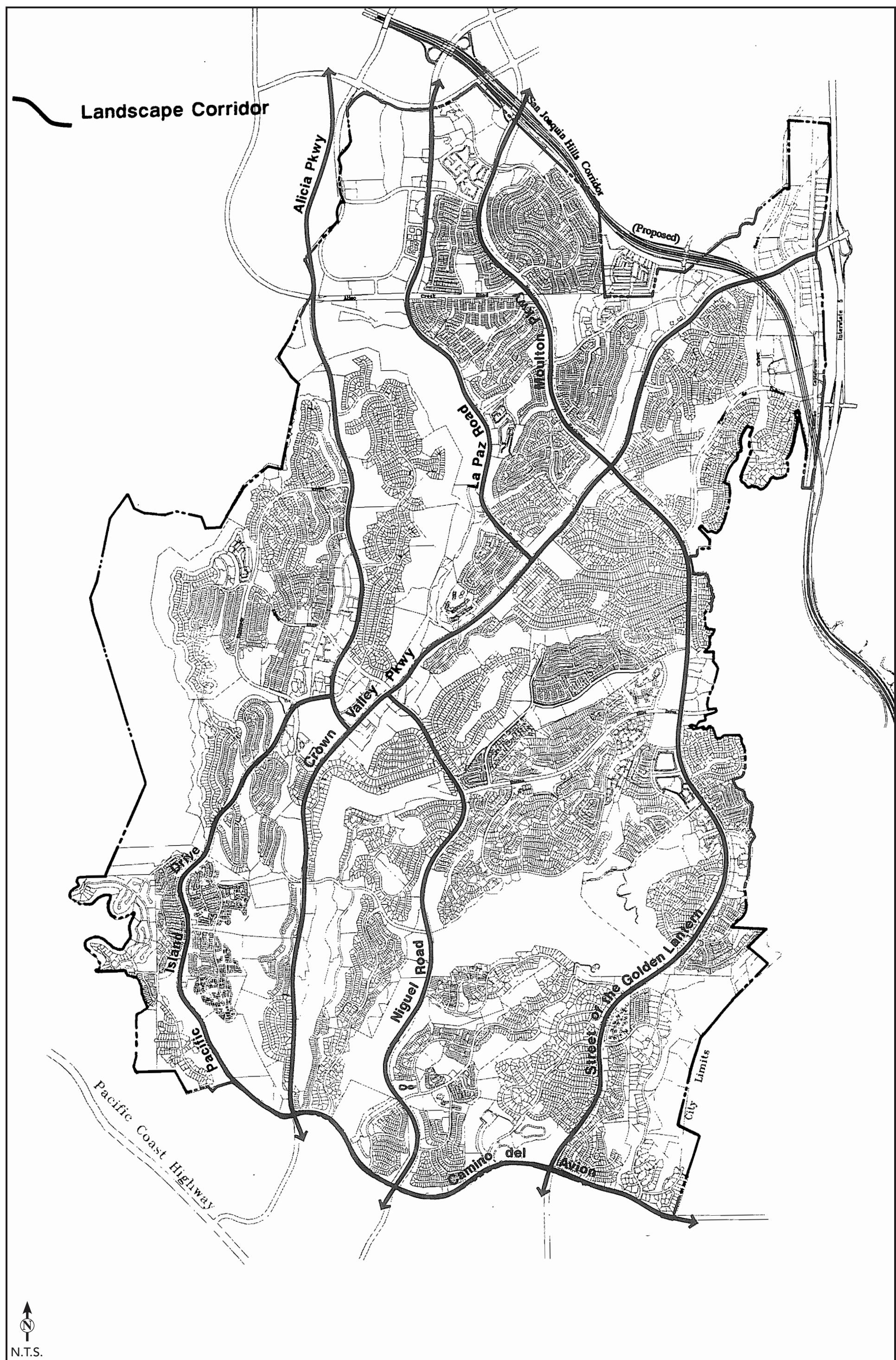
*Cast shade on shadow-sensitive uses by project-related structures for more than three hours between the hours of 9:00 a.m. and 3:00 p.m. Pacific Standard Time (between late October and early April), or for more than four hours between the hours of 9:00 a.m. and 5:00 p.m. Pacific Daylight Time (between early April and late October). Shadow-sensitive uses shall include residential structures and associated outdoor living space, schools, public parks, and other unique situations determined by the Community Development Director.*

A shade/shadow analysis shall be prepared by a qualified consultant who can model the precise vertical and horizontal extent of a proposed project compared to neighboring properties and determine shadow limits based on sun angles at the various times of the year, including the Winter Solstice, which tends to be the most extreme condition for shadowing.

## **B. Agriculture and Forestry Resources**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to Agriculture and Forestry Resources. The City has not mapped Prime Farmland, Unique Farmland, or Farmland of Statewide importance within the City according to the mapping provided by the Department of Conservation. Furthermore, the City's General Plan does not designate any parcels within the City with an agricultural or forestry land use designation. Consequently, all projects in the City will not impact agriculture and forestry resources as these resources are currently defined by CEQA.

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Source: Laguna General Plan Figure OS-3 (1992).

**Figure 2 Landscape Corridors**  
Local Procedures Manual for Implementing CEQA

### C. Air Quality

The City relies on the parameters specified in the CEQA Guidelines Appendix G Checklist for assessing impacts to air quality. Since Appendix G does not identify quantifiable thresholds, the City relies on the South Coast Air Quality Management District's (SCAQMD) Air Quality Significance Thresholds and Localized Significance Thresholds for evaluating both short-term construction emissions and long-term operational emissions from a proposed project.

If a project may cause air quality impacts, either from operations or construction, a qualified air quality engineer or consultant shall prepare an air quality technical study for inclusion in the environmental document.

The **Figure 3** provides a decision tree for evaluating the air quality impacts of a proposed project<sup>2</sup>.

Projects determined exempt from CEQA are also exempt from an air quality analysis. A project that is not exempt from CEQA but limited in scope may also be exempt from an air quality analysis, as shown in the second (green) and third (blue) tiers of the decision tree. The second (green) and third (blue) tiers in the decision tree also provide the definition of simple development projects. Simple industrial/commercial projects are shown in the second (green) tier and simple land development projects are shown in the third (blue) tier.

Projects that require an air quality analysis must evaluate both short-term construction emissions and long-term operational emissions. The SCAQMD Air Quality Significance Thresholds<sup>3</sup> are provided in **Table 2**.

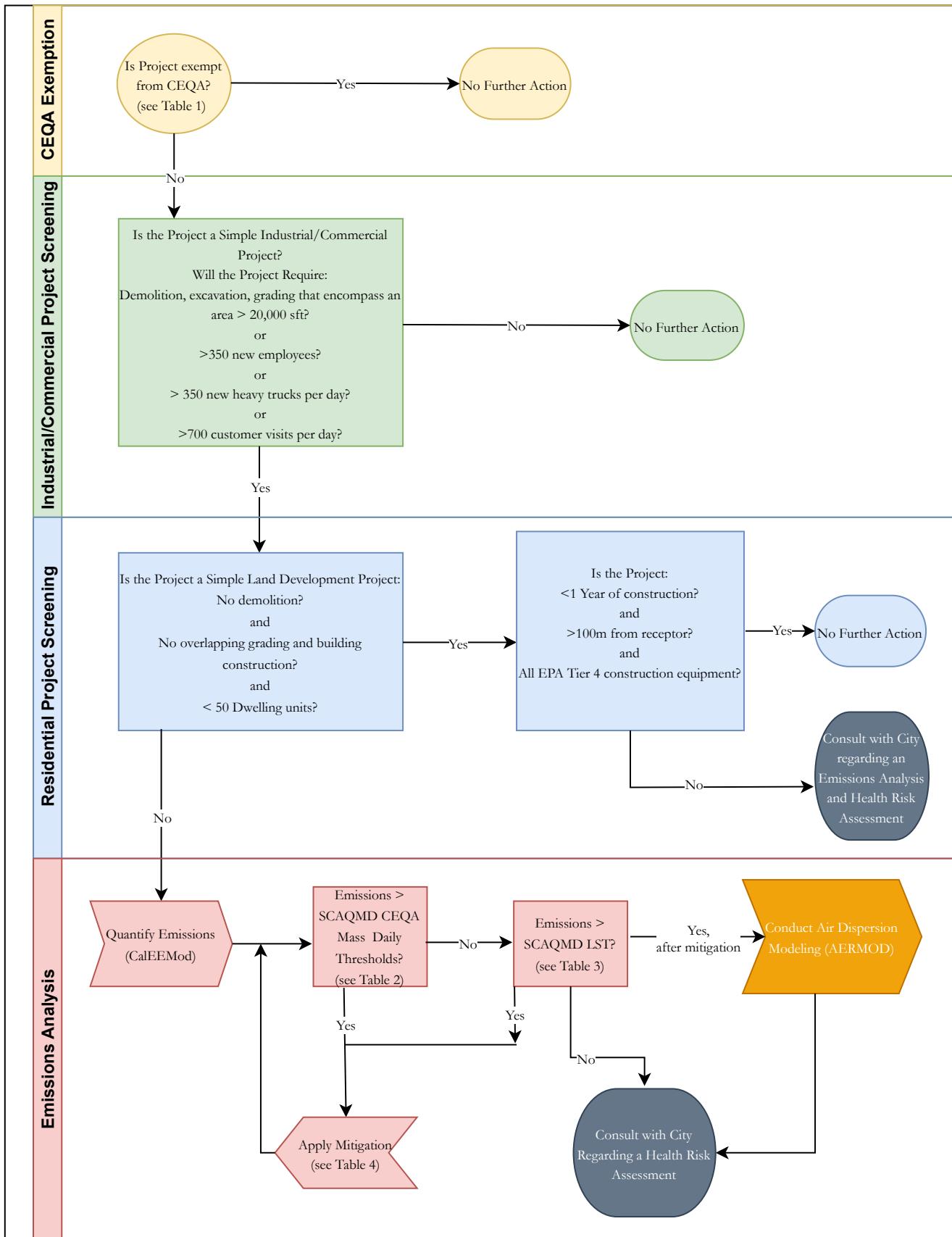
**Table 2. SCAQMD Mass Daily Emission Thresholds**

Pollutant	Construction (lb/day)	Operation (lb/day)
NOx	100	55
VOC	75	55
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55
SOx	150	150
CO	550	550
Lead	3	3

<sup>2</sup> Prepared by Lora Granovsky at iLanco Environmental, LLC.

<sup>3</sup> SCAQMD significance thresholds can also be found at the following link to the SCAQMD website:

<http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>



**Figure 3 Air Quality Decision Tree**  
Local Procedures Manual for Implementing CEQA

Simple development projects, as defined in **Figure 3** (green and blue tiers) can use the Localized Significance Thresholds (LST), which are emission-based look up tables, instead of conducting dispersion modeling to assess compliance with the California Ambient Air Quality Standards (CAAQS), and thus whether impacts are significant. SCAQMD created location-specific Mass Rate LST Look-up Tables, which can be found at the following link to the SCAQMD website:

<http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

**Table 3** reproduces SCAQMD's mass rate look-up tables developed for the source receptor area (SRA) 21 in which Laguna Niguel is located. The thresholds are based on the project disturbance area and distance to receptor.

For more complicated development projects, where the LST tables are not appropriate or emissions exceed LST screening levels, dispersion modeling and a health risk assessment may be required. In those cases, the analysis should first be reviewed and scoped with Staff and appropriate thresholds of significance based on SCAQMD guidance will be applied.

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**Table 3. SCAQMD Localized Significance Thresholds for Laguna Niguel (SRA 21)**

Pollutant	Thresholds (lb/day) Onsite Emissions as a function of receptor distance from property boundary														
	1 Acre					2 Acres					5 Acres				
	25m	50m	100m	200m	500m	25m	50m	100m	200m	500m	25m	50m	100m	200m	500m
NOx Construction & Operation	91	93	108	140	218	131	127	139	165	233	197	189	201	222	278
CO Construction & Operation	696	833	1,234	2,376	7,724	993	1,227	1,696	2,965	8,454	1,804	2,102	2,763	4,387	10,507
PM <sub>10</sub> Construction	4	11	24	48	121	6	18	30	55	129	12	37	49	74	148
PM <sub>10</sub> Operation	1	3	6	12	29	2	5	8	14	31	3	9	12	18	36
PM <sub>2.5</sub> Construction	3	4	8	19	68	4	6	10	22	74	8	11	16	30	90
PM <sub>2.5</sub> Operation	1	1	2	5	17	1	2	3	6	18	2	3	4	8	22

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For projects that require mitigation, **Table 4** below provides guidance on potential mitigation measures.

**Table 4. Air Quality Mitigation Measures**

Mitigation Type	Reference
Fugitive Dust	<p>SCAQMD Fugitive Dust Mitigation Measure Tables</p> <p>Table XI-A: Construction and Demolition</p> <p>Table XI-B: Material Handling</p> <p>Table XI-C: Paved Roads</p> <p>Table XI-D: Unpaved Roads</p> <p>Table XI-E: Storage Piles</p> <p>Available: <a href="http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/fugitive-dust">http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/fugitive-dust</a></p> <p>Accessed: February 2021.</p> <p>Additional fugitive dust mitigation measures can be found in the Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. Available:</p> <p><a href="https://www.wrapair.org/forums/deif/fdh/content/FDHandbook_Rev_06.pdf">https://www.wrapair.org/forums/deif/fdh/content/FDHandbook_Rev_06.pdf</a></p> <p>Accessed: February 2021.</p>
Engine Exhaust: US EPA Tier 3 or 4 engines Diesel particulate filters Alternative fuels Electric equipment	<p>SCAQMD Off-Road Engines Mitigation Measure Tables</p> <p>Table II: Comparison of Uncontrolled to Tiered Rates and Tiered to Tiered Rates</p> <p>Table III: Level 1, 2 &amp; 3 Retrofits for Off-Road Engines</p> <p>Available: <a href="http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/off-road-engines">http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies/off-road-engines</a></p> <p>Accessed: February 2021.</p> <p>CALEEMod Users Guide, Appendix A, and Appendix D. Available at:</p> <p><a href="http://www.caleemod.com/">http://www.caleemod.com/</a> Accessed: February 2021.</p>
Vehicles: Trucks with newer model engines Alternative fuels Electric vehicles	California Air Resources Board 2017 or 2021 EMFAC Model. Available: <a href="https://arb.ca.gov/emfac/">https://arb.ca.gov/emfac/</a> . Accessed: February 2021.

## D. Biological Resources

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to biological resources, as augmented below.

The City of Laguna Niguel is located within the boundaries of the Orange County Natural Community Conservation Plan and Habitat Conservation Plan (NCCP/HCP) for the Central and Coastal Subregion. The primary goal of the NCCP/HCP is to protect and manage habitats supporting a broad range of plant and animal populations found within the Central and Coastal Subregion. To accomplish this goal, the NCCP/HCP created a habitat Reserve System. In return, projects with impacts to sensitive plant or animal populations located outside of the Reserve System can proceed because of the participation in the NCCP/HCP. The City of Laguna Niguel is not a participating member of the NCCP/HCP. Therefore, projects with biological impacts located within the City are not provided take authority under the NCCP/HCP, which means that the potential significant biological impacts of the project must be identified, analyzed, and addressed through feasible mitigation measures.

A qualified biologist shall assess the project site for biological resources. A project site that has been previously developed and consists entirely of hardscape and limited ornamental planting shall be exempt from further study. A project site with areas of vegetation (ornamental or native) and/or bare ground, but void of jurisdictional drainage features, sensitive or listed habitats, and without any potential for sensitive or listed wildlife and plant species may rely on a biological summary memo to document baseline conditions and provide justification for less than significant biological impacts. A Biological Technical Report (BTR), prepared by a qualified biologist, is required for all other projects that may have a significant impact on biological resources. BTRs must include data base searches of potential species that could occur on the project site, vegetation mapping of the project site that identifies species and habitat types present, determination of suitable habitat for sensitive species, and focused surveys, if necessary.

Surveys, including focused surveys for special status species, must follow protocol established by the state and federal Wildlife Agencies and must be conducted by a biologist with corresponding permits authorizing protocol surveys. Furthermore, surveys may become outdated after a year depending on the results and the species about which the protocol survey was performed. For example, if a project site has suitable habitat for the coastal California gnatcatcher and protocol surveys are negative and a year passes from the time of surveys, the surveys should be repeated to confirm negative results. In this example, if the original surveys were positive, showing occupation of the site, additional surveys the following year may not be required because the site is already determined to be occupied.

The BTR should also assess if any drainages are present, and if so, a jurisdictional delineation should be conducted to determine the presence of Waters of the United States and Waters of the State. The delineation should include mapping showing the extent of both types of jurisdiction and an analysis of vegetation/habitat types within the jurisdictional boundaries. Drainages should be assessed for hydraulic connectivity up and downstream. In many cases concrete drainages, such as v-ditches and down-drains, may not qualify as jurisdictional. All drainages, concrete or natural, must be analyzed to determine jurisdiction.

Mitigation for impacts to biological resources must be commensurate to the level of impact. Impacts to sensitive habitats, wildlife or plant species, or jurisdictional waters may not only be mitigated by obtaining state and federal permits. While state and federal permits might be required and those permits may impose additional or greater mitigation, mitigation under CEQA must be quantifiable.

Laguna Niguel is a hilly community with considerable open space. Project sites throughout the City are required to provide fuel modification to reduce wildfire hazards. Fuel modification impacts must be accounted for in the biological assessment of a project. Therefore, prior to completing a biological resource assessment, an Applicant must have an approved preliminary fuel modification plan from the Orange County Fire Authority. Furthermore, required biological mitigation may not occur within any required fuel modification zone.

## **E. Cultural Resources**

The City relies on the questions included in Appendix G and the requirements found in CEQA and the CEQA Guidelines as the thresholds of significance for assessing impacts to cultural resources, as augmented below.

A cultural resources assessment report, prepared by a qualified archaeologist, paleontologist, and/or architectural historian, is required for most development projects and shall include both a record search and field survey. A field survey, at the discretion of the project archaeologist, may not be necessary if the

project site has been previously disturbed to such an extent that archaeological resources could not be present. The records search shall be conducted through the South Central Coastal Information Center (SCCIC), the local clearinghouse for cultural resource records, located at California State University, Fullerton.

The determination of archaeological significance is based on a number of factors specific to a particular site, including site size, type and integrity; presence or absence of a subsurface deposit, soil stratigraphy, features, diagnostics, and datable material; artifact and ecofact density; assemblage complexity; cultural affiliation; association with an important person or event; and ethnic importance. Generally, isolates consisting of less than three artifacts/ecofacts within a 40 square meter area are considered less than significant.

The determination of significance for historic buildings, structures, objects and landscapes is based on age, location, context, association with an important person or event, uniqueness, and integrity. Historic buildings, structures, objects, and landscapes are generally not significant if they are less than 45 years old.

A site will be considered to possess ethnic significance if it is associated with a burial or cemetery; religious, social or traditional activities of a discrete ethnic population; an important person or event as defined by a discrete ethnic population; or the belief system of a discrete ethnic population.

## **F. Energy**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to energy. In addition, Appendix F of the CEQA Guidelines provides guidance on the contents of energy studies.

In most cases, a project that relies on modern equipment for construction and complies with California Code of Regulations Title 24 Part 6: Energy Efficiency Standards and the CALGreen Code for building construction would have less than significant impacts. Projects that rely on outdated equipment or are a unique use with high energy demands may cause a significant impact. In such cases, an energy analysis shall be prepared by a qualified engineer, typically the same engineer who prepares the air quality study.

## **G. Geology, Soils and Paleontology**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to geology and soils, as augmented below. The Appendix G questions generally address impacts from risks from rupture of earthquake faults, ground shaking, ground failure including liquefaction, and landslides; soil erosion; risks from unstable soils; risks from expansive soils; unsuitable soils for septic; and impacts to paleontological resources.

The City of Laguna Niguel is located in an area of complex geology and almost every new development project requires a geological investigation. Much of the City has been mapped by the Department of Conservation as landslide and liquefaction zones. The Applicant shall hire a qualified engineering geologist and geotechnical engineer to evaluate the project site. Evaluation of a project site shall include an appropriate level of subsurface investigation, which could include a combination of back-hoe trenches, cone penetrometer testing (CPT), and borings, unless otherwise waived by the City's geotechnical review consultant, to provide a level of geologic understanding of the project site commensurate with industry standards for a preliminary geotechnical review at the entitlement stage. The amount of subsurface investigation varies depending on the project type and location; therefore, the extent of subsurface

exploration is subjective and shall be determined by the geotechnical engineer of record and the City's reviewing geotechnical consultant. Thus, the Applicant is strongly encouraged to have the scope of the geotechnical investigation approved by the City prior to beginning work.

The Applicant's geotechnical investigation will culminate in the preparation of a "preliminary" geotechnical report. This report will assess the feasibility of developing the project site and provide recommendations for site preparation, such as remedial grading, subsurface drainage, subsurface structures such as caissons, etc. The title "preliminary" does not mean the geotechnical investigation is insufficient or incomplete. The "preliminary" report is prepared for CEQA and a "final" geotechnical report is prepared prior to issuance of a grading permit. The difference between the "preliminary" and "final" reports is the "final" report includes engineering and design details at the construction level that support and are consistent with the findings included in the "preliminary" report.

The City has established a minimum factor of safety of 1.5 for habitable structures. The preliminary geotechnical report must establish current and future factors of safety for the project site. The preliminary geotechnical analysis must also determine if any active earthquake faults are located within the project site. Habitable structures may not be located on an active earthquake fault and generally must be setback at least 50 feet from the fault line, as determined by the geotechnical engineer.

Civil engineering drawings, such a tentative tract map or site plan, show limits of grading, which is often used by other disciplines to calculate impacts. The limits of grading shown on any project plans shall incorporate the limits of remedial grading required by the geotechnical investigation. Therefore, project plans shall show an absolute limit of disturbance that incorporates all geotechnical recommendations.

The geotechnical investigation shall clearly outline any limitations at property boundaries. Limitations could include restrictions on buildings, pools, or landscaping. In cases where off-site grading is not permitted and complete remedial grading cannot be completed on the project site, any restrictions placed on a property shall be clearly identified and explained.

Appendix G includes a question under geology and soils regarding potential impacts to paleontological resources. The City of Laguna Niguel has a history of discovery of paleontological resources within City limits. Each project shall conduct a record search and field survey and resulting summary if the project will conduct work within native soils, often included in the project cultural resources assessment report. In most cases, paleontological monitoring during grading within native soil will be required as mitigation. Additional notification and/or mitigation measures may be required to comply with review to assess impacts on tribal cultural resources under Section R, Tribal Cultural Resources, of this Manual.

## **H. Greenhouse Gas Emissions**

The City relies on the parameters specified in the CEQA Guidelines Appendix G Checklist for assessing impacts to greenhouse gas (GHG) emissions, as augmented below. Unless the project is exempt, a GHG technical study shall be prepared by a qualified engineer, typically the same engineer who prepares the air quality technical study, for review by the City.

The State CEQA Guidelines do not provide numeric or qualitative thresholds of significance for evaluating GHG emissions. The SCAQMD has been evaluating GHG significance thresholds since April 2008. In December 2008, the SCAQMD adopted an interim 10,000 metric tons CO<sub>2</sub>e (MTCO<sub>2</sub>e) per year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency. The SCAQMD has continued to consider adoption of significance thresholds for review of residential and

general development projects by local lead agencies. The most recent proposal issued in September 2010 uses the following tiered approach to evaluate potential GHG impacts from various uses:

**Tier 1** Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

**Tier 2** Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearings and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

**Tier 3** Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MTCO2e/year threshold for industrial uses would be recommended for use by all lead agencies. Under Option 1, separate screening thresholds are proposed for residential projects (3,500 MTCO2e/year), commercial projects (1,400 MTCO2e/year), and mixed-use projects (3,000 MTCO2e/year). Under Option 2 a single numerical screening threshold of 3,000 MTCO2e/year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

**Tier 4** Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of Assembly Bill AB 32 (AB 32) (Stat. of 2006) to reduce statewide GHG emissions by 2020 and 2035. The 2035 targets that reduce emissions to 40% below 1990 levels are 3.0 MTCO2e per service population for project level analyses and 4.1 MTCO2e per service population for plan level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

**Tier 5** Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

The thresholds identified above have not been adopted by the SCAQMD and likelihood of threshold adoption is uncertain. In the absence of other thresholds of significance, the City hereby relies on SCAQMD's draft thresholds for the purpose of evaluating the GHG impacts associated with proposed general development projects. Therefore, for the smaller and simpler non-industrial projects, such as those identified on the air quality decision tree in *Section Error! Reference source not found.* of this Manual, **Figure 3**, the GHG threshold of significance in GHG question (a) is 3,000 MTCO2e/year. For larger and/or more complicated projects, the five-tier outline specified above shall be used to evaluate level of significance for State CEQA Guidelines Appendix G, GHG question (a).

The Southern California Association of Governments (SCAG) is the Metropolitan Planning Organization (MPO) for six counties: Riverside, Los Angeles, Orange, San Bernardino, Ventura, and Imperial. As the designated MPO, the federal government mandates that SCAG prepare plans for transportation, growth management, hazardous waste management, and air quality.

The SCAG regional council adopted the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS) which seeks to improve mobility, promote sustainability, facilitate economic development and preserve the quality of life for the residents in the region. The long-range vision plan balances future mobility and housing needs with goals for the environment, the regional economy, social equity, and environmental justice, and public health. The goals included in the 2016 RTP/SCS are meant to provide guidance for considering projects within the context of regional goals and policies.

The RTP identifies transportation strategies to address mobility needs for the future. The SCS is a new element of the RTP that was put in place by the passage of Senate Bill (SB) 375 (Stat. of 2008), with the goal of ensuring that the SCAG region can meet its regional GHG reduction targets set by the California Air Resources Board (ARB).

In absence of a local Climate Action Plan, evaluating level of significance for State CEQA Guidelines Appendix G, GHG question (b), should rely on an analysis of consistency with the RTP/SCS and whether the project meets the numeric thresholds specified in GHG question (a). A project is generally less than significant if it does not conflict with any policies from the current RTP/SCS, as applicable, and the project's GHG emissions are less than the thresholds established in the five-tier outline specified above.

## I. Hazards and Hazardous Materials

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts from hazards and hazardous materials, as augmented below.

Most new development projects are required to have a Phase I Environmental Site Assessment (ESA) prepared consistent with ASTM E 1527-13 standards. Projects without site disturbance or the potential to impact hazardous materials may not need a Phase I ESA. The Phase I ESA is valid for six (6) months, and the Phase I ESA must be valid at the time the environmental document is released for public review. The Phase I must be prepared by a qualified engineer, consistent with ASTM standards.

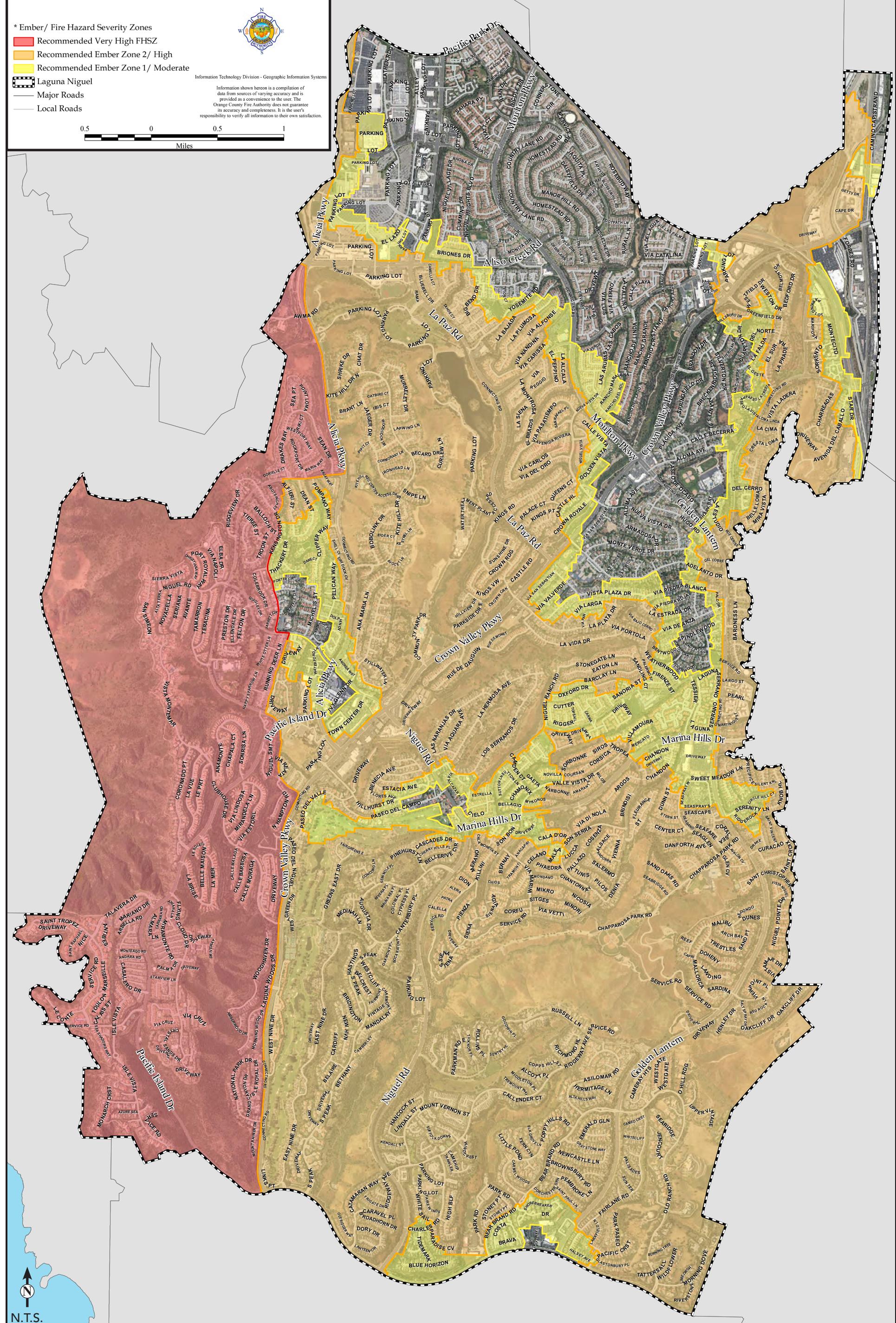
If the Phase I ESA identifies recognized environmental conditions (REC) in connection with the project site, including if the project site is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, a Phase II investigation would be required to determine the potential for release of hazardous materials. The Phase II investigation generally includes sampling, such as soil, groundwater, soil gas, etc.

The City has adopted an emergency response plan, which is included as **Appendix B**. Therefore, each project must be analyzed for consistency with the emergency response plan. In cases where a project is not consistent or causes impacts to the emergency response plan, the Applicant will be required to prepare an amendment for the proposed project, which will be reviewed by Staff, including the Orange County Fire Authority and Orange County Sheriff.

The western portion of the City is located in a Very High Fire Hazard Severity Zone (VHFHSZ), generally west of a north-south line from Crown Valley Parkway and Camino del Avion on the southern boundary of the City extending north along Alicia Parkway. The Laguna Niguel Ember/Fire Hazard Severity Zones map is provided in **Figure 4**. While other parts of the City might be located outside of the VHFHSZ, projects located in other portions of the City are required to provide fuel modification depending on the project site's proximity to open space.

Applicants are required to prepare preliminary fuel modification plans. Fuel modification must be provided within a project site's boundaries or within an offsite easement granted for fuel modification. If an offsite easement is being used for fuel modification, impacts to biological resources from the fuel modification must be addressed and that easement must be secured prior to completion of the environmental document. The preliminary fuel modification plan shall be reviewed and approved by Staff and the Orange County Fire Authority prior to completion of the environmental document. Securing the offsite fuel modification cannot be deferred until after approval of the project.

## Data Reference and Symbolology



Source: Orange County Fire Authority.

Figure 4 Laguna Niguel Ember/ Fire Hazard Severity Zone Map  
Local Procedures Manual for Implementing CEQA

## **J. Hydrology and Water Quality**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to hydrology and water quality, as augmented below.

New development projects and site alterations to existing project sites require preparation of a Hydrology and Hydraulics (H&H) study and a Preliminary Water Quality Management Plan (PWQMP) by a qualified engineer. In addition to the questions included in Appendix G, the following augment the thresholds of significance.

- A project may not increase the flow ("Q") of runoff in the developed condition compared to the pre-development condition.
- A project may not increase the velocity of runoff from a project site in the developed condition compared to the pre-development condition.
- A project may not cause off-site erosion, either by storm flows or by nuisance flows.
- A project shall include a hydromodification analysis and comply with the County of Orange MS4 requirements.
- A project shall include a low impact development (LID) analysis consistent with adopted regulations. A component of the LID analysis is the ability to infiltrate flows. Infiltration in Laguna Niguel can often be infeasible either because the geologic structures do not infiltrate at acceptable rates, or infiltration could lead to geologic instability. If infiltration is not feasible, evidence must be presented documenting the infeasibility.

Detention, retention, and/or water quality measures can take valuable space on a project site. Therefore, the sizing of such facilities must be included in the H&H and PWQMP studies for review by Staff and its consultants. Additionally, long-term maintenance of such facilities must also be identified, both responsible party and funding source.

## **K. Land Use and Planning**

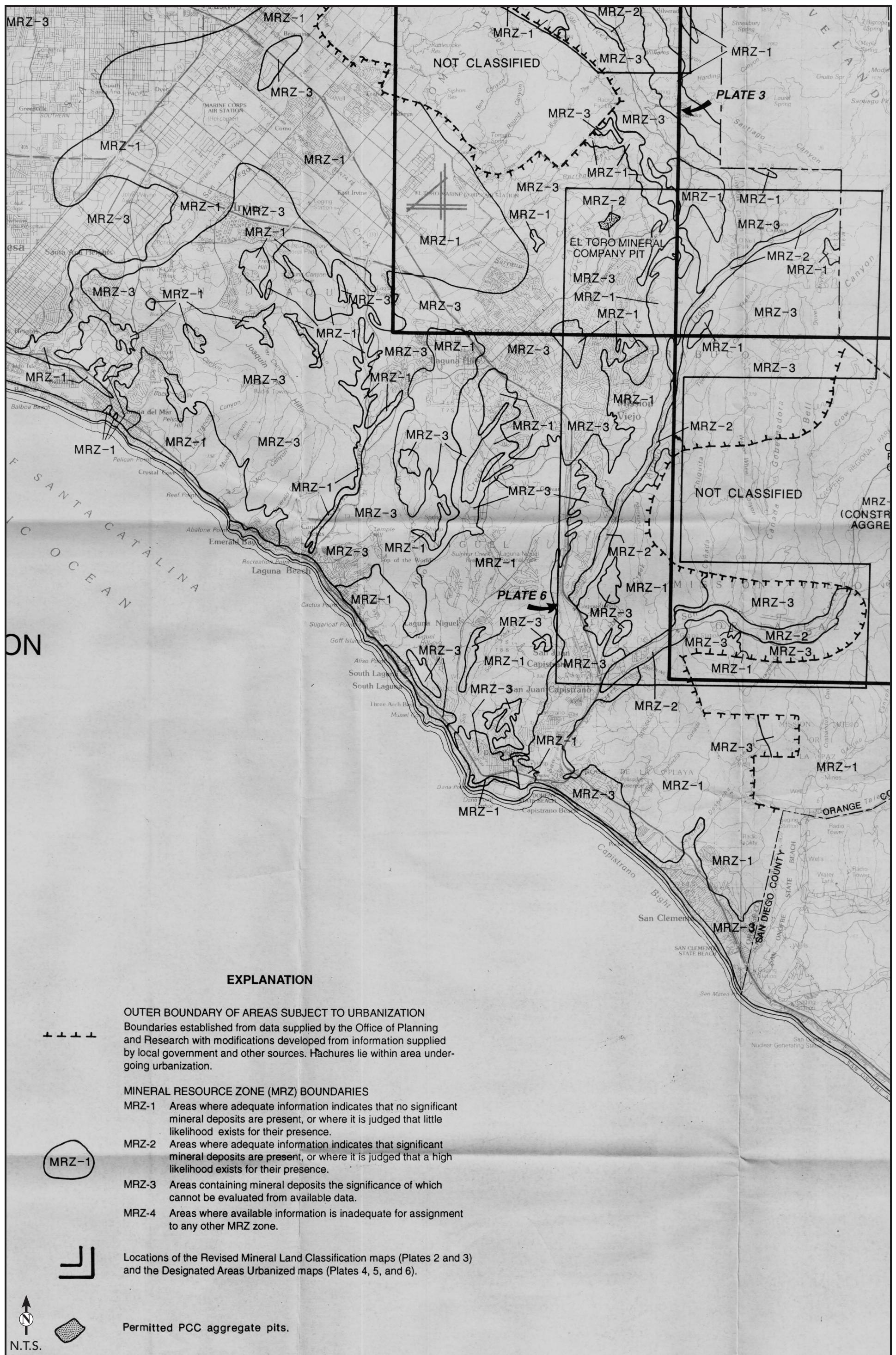
The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to land use and planning.

The City has adopted a General Plan, Local Coastal Program, and Gateway Specific Plan that contain guiding principles, objectives, and policies. Environmental documents should include a table listing relevant principles, objectives, and policies from those documents and demonstrate project consistency, as applicable. Consistency with adopted plans will determine significance.

## **L. Mineral Resources**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts to Mineral Resources.

The entire City of Laguna Niguel is mapped within Mineral Resource Zones (MRZ) MRZ-1 and MRZ-3 by the California Department of Conservation (California Department of Conservation 1995). See **Figure 5**. MRZ-1 identifies areas where adequate information indicates that no significant mineral deposits are present or where it is judged that little likelihood exists for their presence. MRZ-3 identifies areas containing mineral deposits, the significance of which cannot be evaluated from available data. However, there are no areas in the City designated by the General Plan or Zoning Code for mineral resources or mineral resource activities.



Source: California Department of Conservation (1995).

**Figure 5 Mineral Resources Zones**  
 Local Procedures Manual for Implementing CEQA

## M. Noise and Vibration

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts from noise and vibration, as augmented below<sup>4</sup>. Unless exempted, a noise technical report shall be prepared by a qualified acoustical engineer for inclusion in the environmental document.

Noise impacts can occur from construction operations and long-term operation of the project, both of which must be analyzed. The first step to assessing noise is to determine the ambient noise conditions. A qualified noise consultant/engineer shall conduct both short and long-term readings from the project site. A sufficient number of short-term readings shall be provided to capture ambient conditions from the project site, including within as close proximity as possible to adjoining properties and land uses. At least one (additional if warranted by the size of the project site) 24-hour noise readings shall be provided from the project site. If the project site is small, the one 24-hour measurement shall be taken from the center of the property. If the site is large, multiple measurements shall be taken closer to the project boundaries to capture a noise profile representative of all areas of the project site. All noise measurements shall be taken with calibrated equipment meeting ASTM standards. The following augments the thresholds of significance found in Appendix G.

**Construction Noise:** Typically, construction noise does not cause substantial noise at distances beyond 500 feet from construction activities or when construction is limited to allowed days and times<sup>5</sup>. Therefore, the following noise screening criteria may be used for a new project construction:

- Would construction activities occur within 500 feet of a noise sensitive use<sup>6</sup>?
- Would construction occur between the hours of 8:00 p.m. and 7:00 a.m. Monday through Saturday, or anytime on Sunday or federal holidays?

A “yes” response to either of the preceding questions indicates further study is required.

Based on the above criteria, projects that do not qualify for an exemption from a construction noise assessment shall prepare a detailed analysis of construction noise impacts on sensitive receptors according to the methodology and criteria contained in the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual* dated September 2018 (FTA Manual) or most current version. Specifically, the construction noise assessment shall be prepared in accordance with “Option B: Detailed Analysis” included in the FTA Manual. The thresholds of significance applied to construction projects within the City are the FTA standards found in Table 7-3 of the FTA Manual titled, *Table 7-3 Detailed Analysis Construction Noise Criteria*. For a development project adjacent to residential receptors, the daytime construction noise threshold is 80 dBA<sup>7</sup> Leq 8 hour<sup>8</sup>. Nighttime construction activities are

<sup>4</sup> The augmented thresholds of significance were prepared in consultation with Farshad Farhang of A/E Tech, LLC.

<sup>5</sup> The distance of 500 feet is applied as a screening threshold because noise naturally attenuates at 6 dB every doubling of distance of the reference noise source. Most construction equipment has a reference noise source of 50 feet. Therefore, at 500 feet noise will have naturally attenuated over 20 dB, which also does not account for other natural attenuation such as topography, vegetation, or other structures. A 20 dB reduction would substantially reduce noise emissions from the loudest construction equipment below a level that would regularly impair speech, resulting in a less than significant impact.

<sup>6</sup> Noise sensitive land uses are defined in Chapter VI of the Noise Element of the Laguna Niguel General Plan as “residential areas, school sites, childcare areas, library, parks and a senior center site.” (LNGP Noise Element, Page 16).

<sup>7</sup> Source: Federal Transit Administration, *Noise and Vibration Impact Assessment Manual*, 2018.

<sup>8</sup> The Leq 8 hour is an average of noise levels over an 8-hour period to approximate a full-day of construction.

generally prohibited by the Laguna Niguel Municipal Code, however if an exemption is provided, the construction noise thresholds found in Table 7-3 of the FTA Manual would also apply to nighttime construction. The Nighttime threshold of significance for construction noise at residential properties is 70 dBA Leq 8 hour.

**Operational Noise:** Project operational impacts are generally due to the project including single or multiple noise sources within the project site (stationary sources) or causing increases in vehicular traffic on city streets (mobile sources), or both. Therefore, the following operational noise screening criteria may be used for a new project:

- Would the proposed project introduce a stationary noise source audible beyond the property line of the project site?
- Would the project include 75 or more dwelling units, 100,000 square feet or greater of nonresidential development, or have the potential to generate 1,000 or more average daily vehicle trips?<sup>9</sup>

A “no” response to both preceding questions indicates no further study is required. A “yes” response to either of the preceding questions indicates further study of operational noise impacts is required.

If the above screening process for a project indicates that further study of operational noise effects is required, the following significance thresholds apply.

#### Mobile Sources

A project would have a significant noise impact on nearby noise-sensitive land uses if:

- The project causes ambient exterior noise levels at nearby noise-sensitive uses to increase above the City’s exterior noise standards in **Table 5** (i.e., 65 dB CNEL for residential land uses); or

**Table 5. City of Laguna Niguel Land Use Noise Standards (CNEL, dBA)**

Land Use	Interior Standard	Exterior Standard
Residential – Detached	45	65
Residential – Attached	--	70
Neighborhood Commercial	50	70
Community Commercial	--	70
Professional Office	55 <sup>1</sup>	70
Community Commercial/Professional Office	55 <sup>1</sup>	70
Industrial/ Business Park	55 <sup>1</sup>	70

<sup>9</sup> Development projects of less intensity than these thresholds have been demonstrated through prior study to not result in noise level increase above 3 dBA in typical city settings. An increase of 3 dBA is the point where noise increases become barely perceptible to most individuals with normal hearing. A less than 3 dBA increase would therefore not be a noticeable increase and therefore, less than significant.

Land Use	Interior Standard	Exterior Standard
Professional Office/ Industrial/Business Park Industrial/Business Park/ Professional Office/ Community Commercial	--	75
Public/Institutional Public Institutional/ Professional Office	50	70
Schools	50 <sup>2</sup>	65 <sup>2</sup>
Parks and Recreation	--	70
	<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. Where quiet is a basis for use.</li> <li>2. In interior or exterior classroom areas during school operating hours.</li> </ol> <p>Source: Laguna Niguel General Plan, Table N-9, 1992</p>	

- Baseline noise levels at nearest noise-sensitive land uses without the project are below 55 dBA CNEL and the project results in noise level increases of 10 dBA CNEL or more in ambient noise levels; or
- Baseline noise levels at nearest noise-sensitive land uses without the project are in the range of 55-60 dBA CNEL and the project results in ambient noise levels that are 5 dBA CNEL or more above baseline noise levels; or
- Baseline noise levels at nearest noise-sensitive land uses without the project are above 60 dBA CNEL and the project results in a noise level increase of 3 dBA CNEL or more above baseline noise levels.

#### Stationary Sources

Laguna Niguel Municipal Code Division 6 establishes noise standards applicable to stationary sources. Section 6-6-5 establishes exterior noise standards as follows, which constitute the thresholds of significance for stationary sources:

<u>Noise Level</u>	<u>Time Period</u>
55 dBA	7:00 a.m. – 10:00 p.m.
50 dBA	10:00 p.m. – 7:00 a.m.

A significant impact would occur if noise levels on any other residential property exceed:

1. The noise standard for a cumulative period of more than 30 minutes in any hour;
2. The noise standard plus five dB(A) for a cumulative period of more than 15 minutes in any hour;
3. The noise standard plus ten dB(A) for a cumulative period of more than five minutes in any hour;
4. The noise standard plus 15 dB(A) for a cumulative period of more than one minute in any hour; or
5. The noise standard plus 20 dB(A) for any period of time.

#### Interior Noise

As shown in Table 5, the Laguna Niguel General Plan has set interior CNEL standards for various noise-sensitive land use categories. Interior noise standards are also regulated by California Building Code Title

24. Generally, the effect of noise from the surrounding environment does not need to be analyzed within a CEQA document but must show compliance with the Title 24 standards. However, pursuant to *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369, Case No. S213478, “when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the *project’s* impact on the environment—and not the *environment’s* impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions.” Therefore, if a project introduces a sensitive land use, such as residential, into a noisy environment and the project will exacerbate the existing noisy environment, the project may need to include a noise study to demonstrate how the project would be impacted by the project’s contribution to the noisy environment. Furthermore, pursuant to *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369, Case No. S213478, housing projects that require an interior noise analysis include, CEQA Housing Exemptions, Agricultural Employee Housing Exemptions, Low Income Housing Exemptions, and Infill Housing Exemptions.

**Vibration:** The state CEQA Guidelines do not define the levels at which groundborne vibration or groundborne noise would be considered “excessive.” However, California Department of Transportation (Caltrans) has published criteria for the analysis of vibration relating to transportation- and construction-induced vibration. Caltrans has established thresholds that pertain to both building damage and human annoyance from groundborne vibration. Therefore, through adoption of this Manual the City has established the following standards from Caltrans as the thresholds of significance for vibration impacts, as shown in Tables 6 and 7 below.

**Table 6** lists the vibration damage criteria for several categories of building structures. These criteria are expressed in terms of Peak Particle Velocity (PPV). PPV is the maximum instantaneous positive or negative peak of the vibration signal, often used in monitoring of construction vibration (such as blasting) since it is related to the stresses that are experienced by buildings.

Criteria listed in **Table 7** are thresholds of vibration levels that would result in people’s annoyance or interference with daily activities. These levels are also expressed in terms of PPV. Vibration levels that are “distinctly perceptible” or worse are adopted by the City as its thresholds of significance.

It should be noted, projects using only equipment that generates little or no ground vibration, such as air compressors, light trucks, and hydraulic loaders, would only require qualitative descriptions. A quantitative construction vibration analysis is appropriate for projects where construction vibration may result in building damage or prolonged annoyance. For example, activities involving blasting, piledriving, vibratory compaction, demolition, drilling, or heavy grading or excavation near sensitive structures require a quantitative vibration analysis.

**Table 6. Construction Vibration Damage Criteria**

<b>Structure and Condition</b>	<b>Maximum PPV (in/sec)</b>	
	<b>Transient Sources</b>	<b>Continuous/Frequent Intermittent Sources</b>
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.2	0.10
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5

Note: Transient sources create a single isolated vibration event, such as blasting or drop balls.  
Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

*Source: Caltrans Transportation and Construction Vibration Guidance Manual, 2013*

**Table 7. Groundborne Vibration Potential Annoyance Criteria**

<b>Human Response</b>	<b>Maximum PPV (in/sec)</b>	
	<b>Transient Sources</b>	<b>Continuous/Frequent Intermittent Sources</b>
Barely perceptible	0.04	0.01
Distinctly perceptible	0.25	0.04
Strongly perceptible	0.9	0.10
Severe	2.0	0.4

Note: Transient sources create a single isolated vibration event, such as blasting or drop balls.  
Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

*Source: Caltrans Transportation and Construction Vibration Guidance Manual, 2013*

## N. Population and Housing

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on population and housing.

To determine population increase from a project, the City relies on demographic data prepared by the Department of Finance. One of the Department of Finance's data publications updated regularly is Table E-5, which shows population and housing data. For January 2020, the City had an average of 2.61 persons per dwelling unit. This number, adjusted annually, should be used to determine population increase from a project, as well as other requirements, such as parkland dedication.

## O. Public Services

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on public services, as augmented below.

Orange County Fire Authority (OCFA) provides structural fire protection, emergency medical and rescue services, hazardous inspections and response, and public education activities within the City. OCFA has three stations located within the City and many areas of the City are served by OCFA stations in other communities, such as Dana Point, San Juan Capistrano, Mission Viejo, and Aliso Viejo. OCFA has a performance goal of arriving at a core emergency from receipt of the call at the dispatch center within 7 minutes and 30 seconds, 90% of the time (OCFA Standards of Coverage and Deployment Plan, 2014). Proposed projects should be evaluated to determine if the project would cause a negative change to

OCFA's response time goals as amended from time to time, leading to the need for expanded or new fire facilities, the construction of which would result in an impact to the environment.

Orange County Sheriff Department (OCSD) is responsible for providing police protection within the City. All emergency calls are received and dispatched from Laguna Niguel City Hall. Unlike OCFA, Sheriff Deputy's response time varies because assigned patrols are usually in the field and do not have a fixed starting point. Currently the City provides approximately one officer per 2,000 residents. Proposed projects should be evaluated to determine if the project would cause a substantial increase in service calls, resulting in the need for additional officers, or leading to the need for expanded or new police facilities, the construction of which would result in an impact to the environment.

Laguna Niguel is located within Capistrano Unified School District (CUSD) boundaries. Pursuant to Government Code §65995 et seq., the payment of statutory development fees to CUSD shall constitute full mitigation for project related impacts on schools.

#### **P. Recreation**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on recreation, as augmented below.

The City has established park standards in accordance with the Quimby Act (California Government Code §66477), which can be found in Laguna Niguel Municipal Code Section 9-1-522. Additional landscaping and open space requirements are found in Section 9-1-35.13. Proposed projects should be evaluated to determine if the project would include the construction of or cause a substantial increase in demand for recreation, resulting in the need for additional recreation facilities the construction of which would result in an impact to the environment.

#### **Q. Transportation**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on transportation, as augmented below.

The City adopted Transportation Assessment Guidelines in November 2020, which establishes procedures and thresholds for both Vehicle Miles Travelled (VMT) analysis and Level of Service (LOS) Traffic Impact Studies. The Transportation Assessment Guidelines are included as **Appendix C** to this Manual. Projects subject to the Transportation Assessment Guidelines shall have VMT and LOS studies prepared by a qualified traffic/transportation engineer.

Pursuant to SB 743 (Stat. of 1973) and CEQA Guidelines Section 15064.3, the reduction in LOS standards from a project is no longer defined as a valid CEQA impact and VMT is defined as the most appropriate measure of transportation impacts. The Transportation Assessment Guidelines included in **Appendix C** establish procedures, methodology, and thresholds of significance for assessing VMT impacts.

The Laguna Niguel General Plan includes LOS policy standards for intersections within the City. Because General Plan consistency is often analyzed pursuant to CEQA, and consistency with LOS standards is not a determination of a significant impact, projects should be analyzed to determine if consistency with General Plan LOS standards would lead to the construction of traffic improvements, the construction of which would result in an impact to the environment. This is consistent with the following guidance from the Office of Planning and Research (OPR).

“Even if a general plan contains an LOS standard and a project is found to exceed that standard, that conflict should not be analyzed under CEQA. CEQA is focused on planning conflicts that lead to environmental impacts. (*The Highway 68 Coalition v. County of Monterey* (2017) 14 Cal.App.5th 883; see, e.g., Appendix G, IX(b) [asking whether the project will “Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?”].) Auto delay, on its own, is no longer an environmental impact under CEQA. (See Pub. Resources Code, § 21099(b)(2).)”

Notwithstanding the foregoing guidance from OPR, project changes to level of service at an intersection(s) that result in a potential safety impact or hazardous condition should also be analyzed pursuant to CEQA.

As specified in the City’s Transportation Assessment Guidelines, the City does require level of service analysis for projects outside of CEQA, but part of the project review and entitlement process.

## **R. Tribal Cultural Resources**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on tribal cultural resources, as augmented below.

Any project requiring preparation of a ND, MND, or EIR, must comply with AB 52, which requires notification and, if requested, consultation, with local Native American tribes. Following submittal of a complete project application, Staff will request a list of interested tribes from the Native American Heritage Commission (NAHC). Currently, two tribes, with multiple contacts, have registered with the City: the Gabrieleño Band of Mission Indians-Kizh Nation and the Juaneño Band of Mission Indians. Staff will then provide all tribes identified by the NAHC with notice of the proposed project, a description of the proposed project, and an invitation to consultant if requested. Staff will meet with all tribes that request consultation.

Projects that are exemption from CEQA, either categorically or statutorily, or qualify for an addendum to a prior EIR, ND, or MND, are not subject to AB 52.

If a project requires a General Plan Amendment, Specific Plan, Specific Plan Amendment, or adoption/amendment to the Local Coastal Program, notification and consultation with interested tribes is required in accordance with SB 18 (Stat. of 2004). Staff will follow a similar notification and consultation process as outlined under AB 52 (Stat. of 2014); however, notification will be done separately from AB 52 notification. If a tribe requests consultation under SB 18, the consultation would also satisfy AB 52 consultation requirements. It should be noted that under SB 18, tribes have 90-days to consult, therefore, notification early in the environmental review process is important. Under AB 52, the tribes have 30 days to request consultation.

If there is a potential for Tribal Cultural Resources (TRC) on the project site, the standard mitigation measure is to require tribal monitoring during ground disturbing activities of areas that could contain TRC. If such a mitigation measure is placed on a project, the project Applicant would be required to enter into a monitoring agreement with the applicable tribe(s).

## **S. Utilities and Service Systems**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts on utilities and utility systems, as augmented below. Utility and utility systems shall be analyzed by a qualified engineer and the results of the analysis included in the environmental documentation.

Laguna Niguel is served by the following utility providers:

- Water (domestic and recycled): Moulton Niguel Water District (MNWD)
- Wastewater: MNWD
- Electricity and Natural Gas: San Diego Gas and Electric (SDGE), the Gas Company, and Southern California Edison, depending on project location.

Additionally, the Orange County Integrated Waste Management Department owns and operates three public landfills in Orange County that accept municipal solid waste. These include Frank R. Bowerman Landfill in Irvine, which accepts commercial waste only; the Olinda Alpha Landfill in Brea, which accepts both public and commercial waste; and the Prima Deshecha Landfill in San Juan Capistrano, which also accepts both public and commercial waste. All three landfills are Class III and only accept non-hazardous municipal waste.

Applicants are advised to obtain “will serve” letters from the utility providers, however, a “will serve” letter does not always satisfy the required CEQA analysis. Except for very small projects, an analysis of project demand compared to system capacity will be required. Projects will be required to demonstrate that sufficient system capacity is available to serve the project’s demands. Furthermore, for domestic water, projects will be required to demonstrate adequate fire flow and pressure zone capacity.

For large projects, a Water Supply Assessment (WSA) would be required in accordance with SB 610 (Stat. of 2001). A WSA is an analysis of the availability of water to serve the project in addition to existing and planned future uses, which is prepared by the water provider to be included in the CEQA document. In accordance with Water Code Section 10912, as adopted by SB 610, projects subject to the requirement for a WSA include:

- A proposed residential development of more than 500 dwelling units.
- A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.
- A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.
- A proposed hotel or motel, or both, having more than 500 rooms.
- A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.
- A mixed-use project that includes one or more of the projects specified in Water Code Section 10912.
- A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

Residential subdivisions over 500 dwelling units would also be required to prepare a Water Verification (WV) Letter pursuant to Water Code Sections 65867.5, 66455.3 and 66473.7. (See SB 221, Stat. of 2002.)

Often, WSAs and WV Letters are prepared by the Water District. The Water District will generally distribute a request for proposals and hire a consultant to prepare the WSA and WV documents. This process can take time; therefore, ample time should be included in project schedules.

A project’s impact to utilities and its potential contribution to utility improvements can be challenging because utility facilities tend to serve large sub-regional areas and generally do not serve only one project.

The City's approach through CEQA and in working with the utility providers is to ensure there is both a clear nexus between the project and the identified impact, and proportionality to any required improvements, so smaller projects are not forced to shoulder, or even front, the financial burden of expensive improvements for a larger service area.

#### **T. Wildfire**

The City relies on the questions included in Appendix G as the thresholds of significance for assessing impacts from wildfire, as augmented below.

The western portion of the City is located in a Very High Fire Hazard Severity Zone (VHFHSZ), generally west of a north-south line from Crown Valley Parkway and Camino del Avion on the southern boundary of the City extending north along Alicia Parkway. The Laguna Niguel Ember/Fire Hazard Severity Zones map is provided in **Figure 4**. While other parts of the City might be located outside of the VHFHSZ, projects located in other portions of the City are required to provide fuel modification depending on the project site's proximity to open space.

Fuel modification must be provided within a project site's boundaries or within an offsite easement granted for fuel modification. If an offsite easement is being used for fuel modification that easement must be secured prior to completion of the environmental document. Securing the offsite fuel modification cannot be deferred until after approval of the project.

Applicants are required to prepare preliminary fuel modification plans. The preliminary fuel modification plan shall be reviewed and approved by Staff and the OCFA prior to completion of the environmental document.

The City has adopted an emergency response plan, which is included as **Appendix B**. Therefore, each project must be analyzed for consistency with the emergency response plan. In cases where a project is not consistent or causes impacts to the emergency response plan, the Applicant will be required to prepare an amendment for the proposed project, which will be reviewed by Staff, including the Orange County Fire Authority and Orange County Sheriff.

## **Appendix A CEQA Guidelines Appendix G Checklist**

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## **APPENDIX G: ENVIRONMENTAL CHECKLIST FORM**

NOTE: The following is a sample form that may be tailored to satisfy individual agencies' needs and project circumstances. It may be used to meet the requirements for an initial study when the criteria set forth in CEQA Guidelines have been met. Substantial evidence of potential impacts that are not listed on this form must also be considered. The sample questions in this form are intended to encourage thoughtful assessment of impacts, and do not necessarily represent thresholds of significance.

1. Project title: \_\_\_\_\_
2. Lead agency name and address:  
\_\_\_\_\_  
\_\_\_\_\_
3. Contact person and phone number: \_\_\_\_\_
4. Project location: \_\_\_\_\_
5. Project sponsor's name and address:  
\_\_\_\_\_  
\_\_\_\_\_
6. General plan designation: \_\_\_\_\_
7. Zoning: \_\_\_\_\_
8. Description of project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)  
\_\_\_\_\_  
\_\_\_\_\_
9. Surrounding land uses and setting: Briefly describe the project's surroundings:  
\_\_\_\_\_  
\_\_\_\_\_
10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)  
\_\_\_\_\_  
\_\_\_\_\_
11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.? \_\_\_\_\_  
Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21080.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic

Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

## ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

<input type="checkbox"/> Aesthetics	<input type="checkbox"/> Agriculture and Forestry Resources	<input type="checkbox"/> Air Quality
<input type="checkbox"/> Biological Resources	<input type="checkbox"/> Cultural Resources	<input type="checkbox"/> Energy
<input type="checkbox"/> Geology /Soils	<input type="checkbox"/> Greenhouse Gas Emissions	<input type="checkbox"/> Hazards & Hazardous Materials
<input type="checkbox"/> Hydrology / Water Quality	<input type="checkbox"/> Land Use / Planning	<input type="checkbox"/> Mineral Resources
<input type="checkbox"/> Noise	<input type="checkbox"/> Population / Housing	<input type="checkbox"/> Public Services
<input type="checkbox"/> Recreation	<input type="checkbox"/> Transportation	<input type="checkbox"/> Tribal Cultural Resources
<input type="checkbox"/> Utilities / Service Systems	<input type="checkbox"/> Wildfire	<input type="checkbox"/> Mandatory Findings of Significance

## DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

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Signature

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Date

**EVALUATION OF ENVIRONMENTAL IMPACTS:**

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from “Earlier Analyses,” as described in (5) below, may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
  - a) the significance criteria or threshold, if any, used to evaluate each question; and
  - b) the mitigation measure identified, if any, to reduce the impact to less than significance

## SAMPLE QUESTION

## Issues:

	Potentially Significant Impact	with Mitigation Incorporated	Less Than Significant Impact	Less Than Significant Impact	No Impact
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**I. AESTHETICS.** Except as provided in Public Resources Code Section 21099, would the project:

- a) Have a substantial adverse effect on a scenic vista?
- b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?
- c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?
- d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

			Less Than Significant			
Potentially Significant Impact	with Mitigation Incorporated	Less Than Significant Impact	No Impact			

## II. AGRICULTURE AND FORESTRY

**RESOURCES.** In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

- a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
- b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?
- c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?
- d) Result in the loss of forest land or conversion of forest land to non-forest use?
- e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Potentially Significant Impact	Mitigation Incorporated	Less Than Significant		
		with	Less Than Significant	No Impact

**III. AIR QUALITY.** Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

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

**IV. BIOLOGICAL RESOURCES:**  
Would the project:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?
- c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife

	Potentially Significant Impact	Less Than Significant			No Impact
		with Mitigation Incorporated	Less Than Significant Impact		
species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>V. CULTURAL RESOURCES.</b> Would the project:					
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of formal cemeteries?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Potentially Significant Impact	with Mitigation Incorporated	Less Than Significant		No Impact
		Less Than Significant	Impact	

**VI. ENERGY.** Would the project:

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

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

**VII. GEOLOGY AND SOILS.** Would the project:

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

ii) Strong seismic ground shaking?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

iii) Seismic-related ground failure, including liquefaction?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

iv) Landslides?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

b) Result in substantial soil erosion or the loss of topsoil?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------

Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact		No Impact
		Less Than Significant Impact	No Impact	
not available for the disposal of waste water?				
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>VIII. GREENHOUSE GAS EMISSIONS.</b> Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>IX. HAZARDS AND HAZARDOUS MATERIALS.</b> Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Less Than Significant		
		with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>X. HYDROLOGY AND WATER QUALITY.</b> Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XI. LAND USE AND PLANNING.</b> Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XII. MINERAL RESOURCES.</b> Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Result in the loss of availability of a locally- important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XIII. NOISE.</b> Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Potentially Significant Impact	Mitigation Incorporated	Less Than Significant		Less Than Significant Impact	No Impact
		with	Less Than Significant Impact		

excessive noise levels?

#### XIV. POPULATION AND HOUSING.

Would the project:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

#### XV. PUBLIC SERVICES.

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

Fire protection?

Police protection?

Schools?

Parks?

Other public facilities?

#### XVI. RECREATION.

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
environment?				
<b>XVII. TRANSPORTATION.</b> Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XVIII. Tribal Cultural Resources.</b> Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Potentially Significant Impact	Mitigation Incorporated	Less Than Significant		Less Than Significant Impact	No Impact
		with	Less Than Significant Impact		

## XIX. UTILITIES AND SERVICE SYSTEMS.

Would the project:

- a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?
- b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?
- c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
- e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

## XX. WILDFIRE.

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

- a) Substantially impair an adopted emergency response plan or emergency evacuation plan?
- b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or

Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant	No Impact
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other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

## XXI. MANDATORY FINDINGS OF SIGNIFICANCE.

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Note: Authority cited: Sections 21083 and 21083.05, Public Resources Code. Reference: Section 65088.4, Gov. Code; Sections 21080(c), 21080.1, 21080.3, 21083, 21083.05, 21083.3, 21093, 21094, 21095, and 21151, Public Resources Code; *Sundstrom v. County of Mendocino*, (1988) 202 Cal.App.3d 296; *Leonoff v. Monterey Board of Supervisors*, (1990) 222 Cal.App.3d 1337; *Eureka Citizens for Responsible Govt. v. City of Eureka* (2007) 147 Cal.App.4th 357; *Protect the Historic Amador Waterways v. Amador Water Agency* (2004) 116 Cal.App.4th at 1109; *San Franciscans Upholding the Downtown Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656.

*Revised 2016*

*Authority: Public Resources Code sections 21083 and 21083.09*

*Reference: Public Resources Code sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3/21084.2 and 21084.3*

## **Appendix B Emergency Plan**

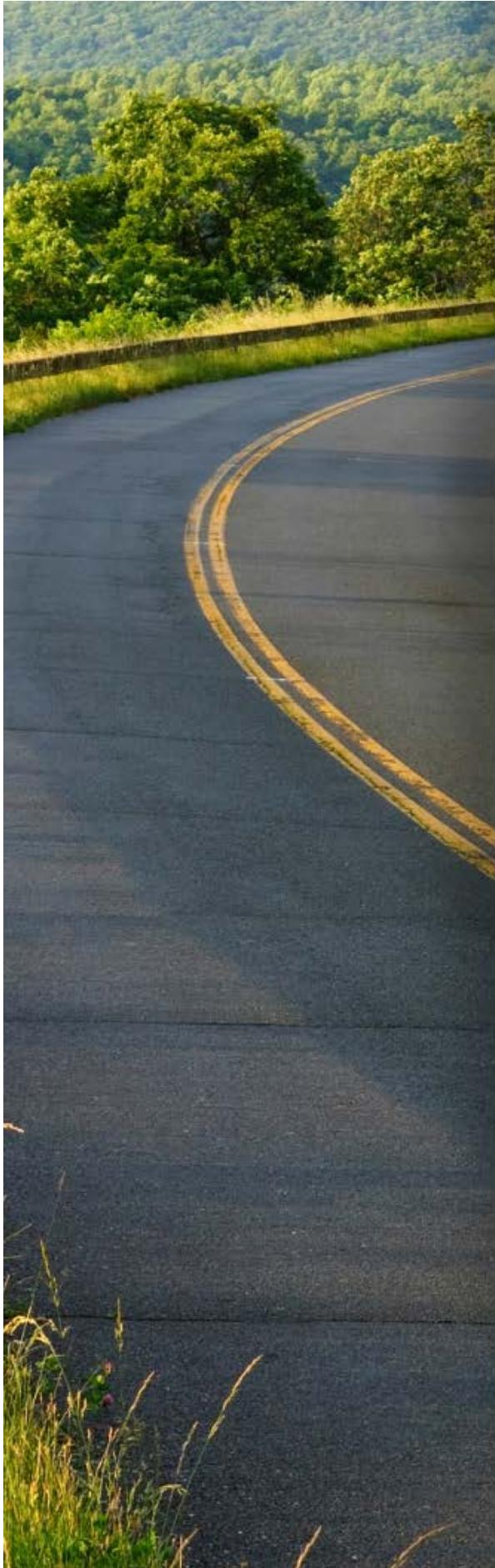
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**Emergency Plan is on file with the City**

## **Appendix C**

### **Transportation Assessment Guidelines**

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**CITY OF  
LAGUNA NIGUEL**

# **TRANSPORTATION ASSESSMENT GUIDELINES**

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**2020**  
**NOVEMBER**

# **TRANSPORTATION ASSESSMENT GUIDELINES**

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**PREPARED BY**

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Laguna Niguel, CA 92677

**AND**

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November 17, 2020

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# 1. INTRODUCTION

The purpose of this document is to establish Transportation Assessment Guidelines for the City of Laguna Niguel while achieving compliance with the revised California Environmental Quality Act (CEQA) Guidelines related to Senate Bill 743 (SB 743). A Transportation Assessment is required to evaluate the impact of land use proposals on the existing and future traffic circulation system per the Laguna Niguel General Plan and other related impacts (e.g., site access, parking, and internal circulation). When necessary, this also includes preparing a vehicle miles traveled (VMT) assessment as a part of a project's CEQA analysis. These Transportation Assessment Guidelines present the recommended format and methodology that should generally be utilized in addressing VMT under CEQA and in preparing a Traffic Impact Study, as applicable. The basis for the methodology was derived from a "Technical Memorandum of Facts, Reasonable Assumptions, and Expert Opinions" prepared by Iteris, Inc. and is included as Appendix A.

Please note, the City may update these Guidelines on an as-needed basis to ensure current best practices are being applied for land development review and transportation analysis. The City also reserves the right to request further project specific information in its evaluation that may not be identified or described in this document.

## 1.1 CEQA Changes

CEQA includes administrative regulations and guidelines that set forth and explain how to determine whether an activity (i.e., proposed project) is subject to environmental review, the steps to undertake the review, and the required content of the review. One of the categories of environmental impacts that public agencies study under CEQA is traffic/transportation, including the increase in traffic that is caused by new development and is added to existing traffic conditions. Historically, these assessments have focused on congestion (vehicle delay). The outcome of this kind of analysis was a letter grade describing how well a road or intersection was functioning. Specifically, a letter grade from "A" to "F" was given, with Level of Service (LOS) "A" meaning the least amount of congestion (or vehicle delay) and LOS "F" meaning the worst level of congestion (or vehicle delay).

On September 27, 2013, SB 743 was signed into California State Law. SB 743 requires that public agencies modify their methodology for analyzing transportation impacts of land use projects subject to CEQA. SB 743 moves away from using delay-based LOS as the metric for determining a proposed project's potentially significant impacts to instead use VMT. VMT measures the number of vehicle trips generated and the length or distance of those trips. Typically, projects that are farther away from other complementary land uses and in areas without transit or active transportation infrastructure (bike lanes, sidewalks, etc.) generate more driving than development near complementary land uses with more transportation options. This shift in focus from impacts to motorists (traffic delay) to the impacts of vehicle travel on the environment is intended to better align transportation impact analysis and mitigation with the State's goals to reduce greenhouse gas (GHG) emissions and improve public health by encouraging infill development and active transportation.

As an implementing action of SB 743, in December 2018, the California Office of Planning and Research (OPR) provided a Technical Advisory to assist local jurisdictions establish new criteria for determining the significance of transportation impacts. As noted in CEQA Guidelines Section 15064.7(b), lead agencies are encouraged to formally adopt their thresholds of significance.

## 1.2 Laguna Niguel General Plan

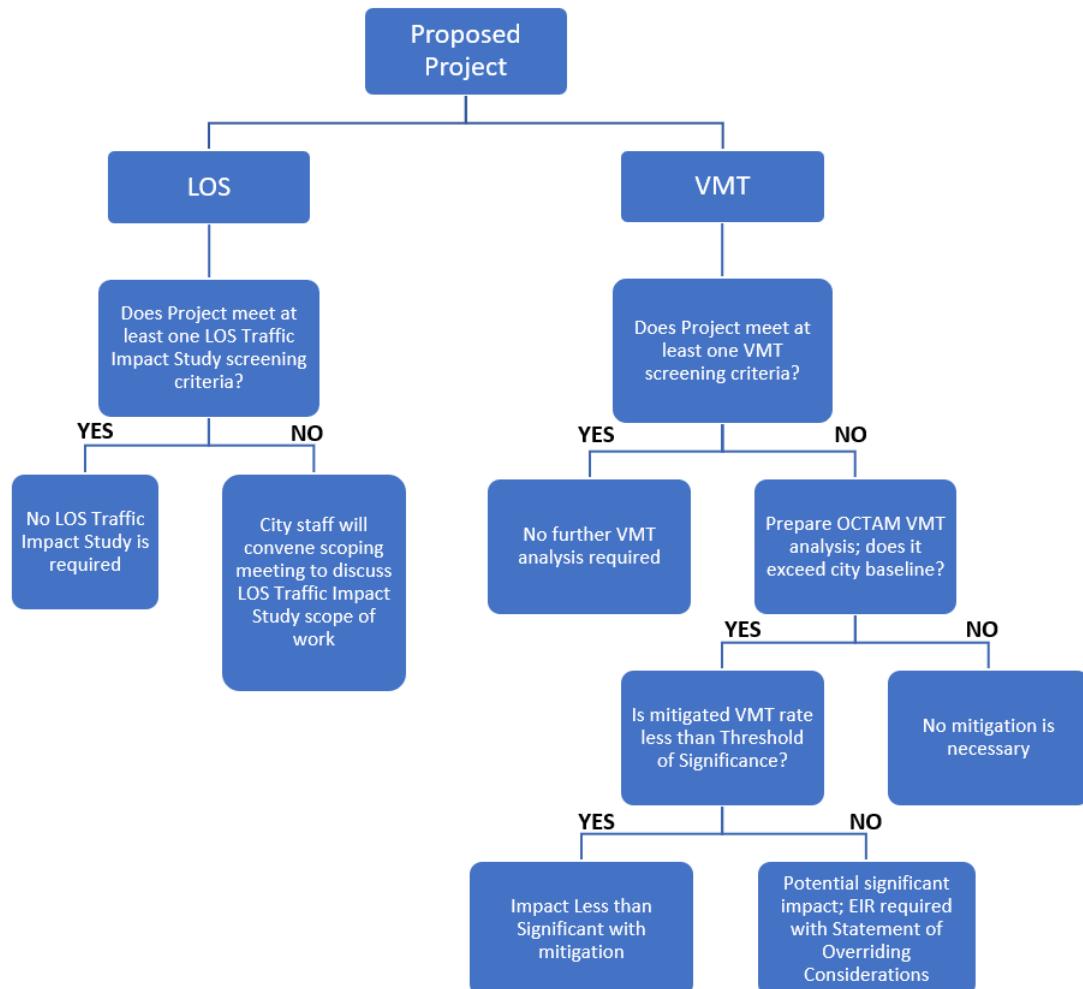
While SB 743 requires that delay or LOS no longer be used for transportation impact assessments under CEQA, the Laguna Niguel General Plan Circulation Element has adopted vehicle LOS policies that set standards for which local roadways and intersections will strive to maintain. LOS based studies will continue to be required for new land use projects to ensure consistency with these City standards. Outside of the scope of CEQA, this requirement for LOS assessment for qualifying projects will remain unchanged.

## 2. PROCESS FOR TRANSPORTATION ASSESSMENT

These Guidelines provide general instruction on how to prepare the necessary transportation assessments for both VMT Analysis for CEQA purposes (refer to Guidelines Section 3) and LOS Traffic Impact Studies for General Plan consistency purposes and other transportation related impacts, such as site access, parking, and internal circulation (refer to Guidelines Section 4). A flow chart overview of the process is provided in Figure 1 below.

Please note, there will be instances a project requires a VMT Analysis, but not a LOS Traffic Impact Study. It is also possible for a project to be screened from VMT Analysis and require a Traffic Impact Study with LOS analysis.

**Figure 1 - Transportation Assessment Flow Chart**



## 3. VMT ANALYSIS – CEQA REQUIREMENT

Consistent with state CEQA Guidelines, CEQA transportation analysis in the City is focused on the impact of automobile VMT from residents and employees. If a proposed land use project does not meet any one of the screening criteria described in Section 3.2, then a VMT Analysis is required. The process starts with an applicant or their consultant/representative completing and submitting the City's VMT Screening Form to the Community Development Department (Planning Division). The VMT Screening Form provides an easy to use tool for streamlining the VMT analysis process. An automated spreadsheet is available from the Planning Division and a PDF copy is provided in Appendix B. If a proposed project is found to not need a full VMT Analysis to satisfy CEQA, a LOS Traffic Impact Study may still be required (refer to Section 4 of these Guidelines).

### 3.1 VMT Methodology

Project will be analyzed for the entire VMT of their trips, including outside of the City. A project's change in VMT will be analyzed and assessed on a per capita and/or per employee basis in order to use an efficiency-based metric. These are compared to a base year<sup>1</sup> citywide average value to determine potential significant transportation impact.

The City calculated VMT and efficiency metrics of VMT for areas within the City using the Orange County Transportation Analysis Model (OCTAM) which is a subarea model of the Southern California Association of Government's (SCAG) travel demand model. Most projects will be analyzed using the average VMT by trip type from the model traffic analysis zone (TAZ) the project is located. The TAZ is the origin/destination location of the trips, the VMT is measured by the length the trips travel on the roadway network. Since VMT is primarily a function of the location of a project, and the TAZ is the smallest geography in the Model, a project will be assumed to have the same average VMT characteristics as neighboring development within the TAZ. For large projects that may affect both local and regional traffic patterns the City may require that the applicant perform a new select zone OCTAM model run with the new project included to identify the VMT generated by the project in more detail. Similarly, for projects where there is reason to believe that the project's VMT characteristics would vary significantly from the TAZ average, the City may require a new select zone model run.

### 3.2 VMT Screening Criteria for Land Use Projects

Discretionary land use projects subject to CEQA must evaluate transportation impacts related to VMT as part of the environmental review process. The City's screening criteria is intended to provide a simplified way to determine whether a project's VMT would be expected to cause a less than significant CEQA transportation impact without having to conduct a detailed VMT Analysis. The screening criteria trip limit is based on net trip generation after considering pass-by and internal capture (consistent with ITE or other approved reliable sources), and any reductions for affordable housing, and/or existing land uses that would be removed. Screening thresholds for land use projects are provided for the following:

- 1) *Small Projects* - Projects that would generate less than 500 vehicle trips per day based on the latest Institute of Transportation Engineers (ITE) Trip Generation Manual are presumed to be less than significant. As with other types of transportation analysis, the trip generation of the current uses, which have been determined to constitute the CEQA baseline condition, could be reduced from the

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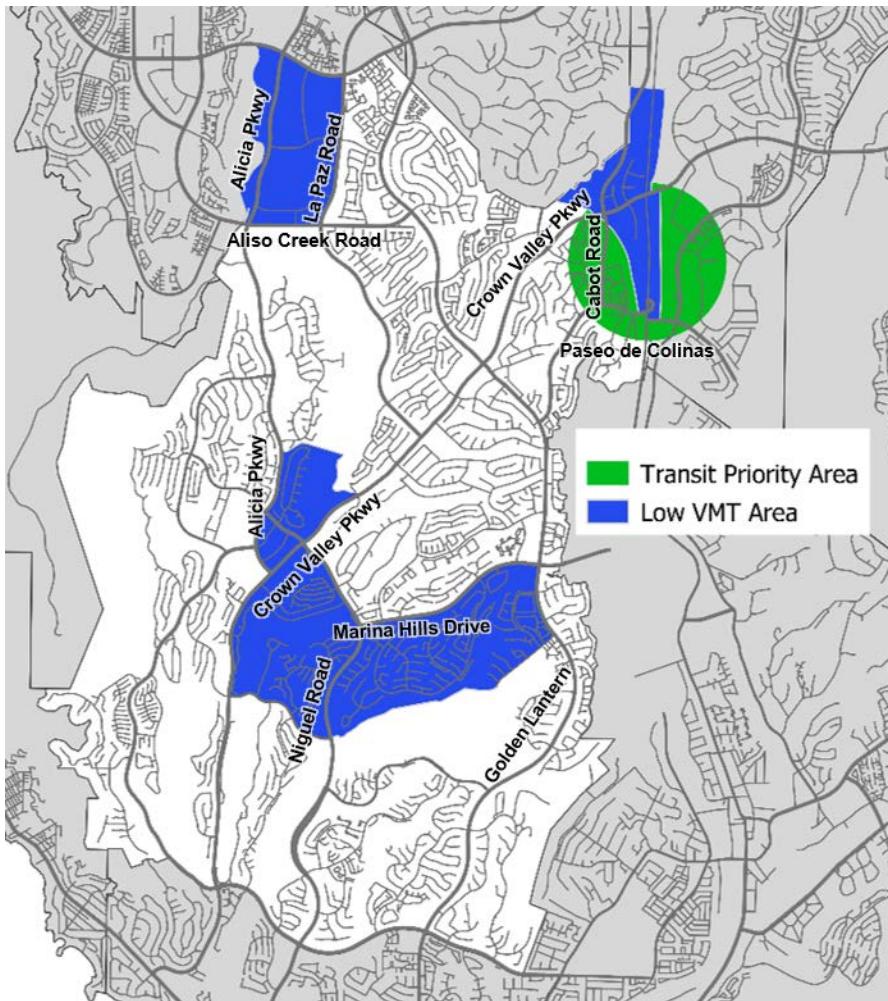
<sup>1</sup> "Base year" is the base year of the travel demand model used for the analysis.

proposed project so only net trips are assessed. A project demonstrating fewer and/or shorter trips leading to lower VMT than existing conditions may also be presumed to be less than significant.

- 2) *Redevelopment Projects* - For redevelopment projects, the metric looks only at the net trips generated by the redevelopment project (project trips generated by the new development minus trips generated by the previous development). If the net trips generated by the redevelopment is less than the Small Project trip threshold of 500 daily trips (as discussed in the prior section) then no additional analysis is required. Where a proposed project replaces existing VMT-generating land uses and the replacement leads to a net overall decrease in VMT, the project would lead to a less-than-significant transportation impact. If the project leads to a net overall increase in VMT, then the redevelopment project is evaluated for impact analysis based on the applicable residential or non-residential VMT rate methodology, as further discussed in subsequent sections of these Guidelines.
- 3) *Projects Located in a Low VMT Area* - The map-based screening of areas that display VMT below the City's threshold indicate where new development would be presumed to be less than significant. They represent areas of the City currently located near a diversity of land uses or multimodal transportation where additional development would further decrease VMT per capita or employee. The three low VMT areas of the City are:
  - The Gateway Specific Plan area around the Metrolink Station (TAZ 1479 and TAZ 1629).
  - The northwest portion of the City bounded by Aliso Creek Road and La Paz Road, an employment center (TAZ 1624).
  - The central portion of the City bounded by Alicia Parkway, Crown Valley Parkway, Clubhouse Drive, Golden Lantern, Marina Hills Drive, Niguel Road, the central part of the City (TAZ 1648, TAZ 1652, TAZ 1655, and TAZ 1657).
- 4) *Projects Located in Transit Priority Areas* - The City has one Transit Priority Area (TPA): the Laguna Niguel/Mission Viejo Metrolink Station. A TPA is a half-mile surrounding a major transit stop. A project with any portion of its limits inside the TPA is considered within the TPA. The TPA surrounding the Laguna Niguel Metrolink Station as shown in the following map, Figure 2. Projects in TPAs are generally be presumed to have less than significant impacts, unless the proposed development:
  - Has a Floor Area Ratio (FAR) of less than 0.75,
  - Includes more parking than required by the City,
  - Is inconsistent with the SCAG Sustainable Communities, or
  - Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

Land use development projects in the TPA and consistent with the Laguna Niguel Gateway Specific Plan would likely be exempt from CEQA analysis. Should bus service substantially expand or a new bus/multi-modal transit stop be constructed, the boundaries of a TPA within the City should be re-evaluated.

**Figure 2 - Laguna Niguel Low VMT Areas and Transit Priority Area**



5) *Locally Serving Land Uses Projects* - Locally serving land uses provide goods and services to the local community. These types of land uses offer more opportunities for residents and employees to shop, dine and obtain services closer to home and work. Locally serving uses can also include community resources that may otherwise be located outside of the local area. By improving destination proximity, local serving uses lead to shortened trip lengths and reduced VMT. Therefore, the following local serving uses less than 50,000 square feet may be presumed to have a less than significant impact on VMT:

- Libraries,
- Civic Centers,
- Police/Fire Station,
- Community Centers,
- Other locally serving civic uses,
- Public schools,
- Private schools with less than 120 students,
- Community colleges with less than 400 students,
- Daycare centers,

- Urgent care facilities,
- Walk-in medical clinics,
- Auto repair/tire shops,
- Gas service station,
- Gyms/health clubs,
- Fitness studios,
- Locally serving hotels (non-destination hotels),
- Locally serving assembly uses (places of worship, community organizations).

A mixed-use project with locally serving components but is more than 50,000 square feet in total would not be screened from further analysis, however, the presumption of less than significance for locally serving project components could be described qualitatively.

For other potentially locally serving land uses the decision to screen out would be determined by City staff on a case-by-case basis, depending on the size and location of the proposed development.

6) *Affordable Housing Projects* - Adding affordable housing to infill locations generally improves jobs-housing match, in turn shortening commutes and reducing VMT. Further, "... low-wage workers in particular would be more likely to choose a residential location close to their workplace, if one is available." Evidence and guidance from OPR support a presumption of less than significant impact for a 100% affordable residential development (or the residential component of a mixed-use development) in infill locations.

For projects that are less than 100% affordable, each affordable unit shall be deemed to have no VMT generation. The remaining market-rate units shall be subject to the VMT analysis presented in these Guidelines.

### 3.3 VMT Analysis Thresholds of Significance

Projects that do not meet at least one of the screening criteria described in Section 3.2 must provide additional analysis and mitigation of potential VMT impacts. Section 21099 of the Public Resource Code states that the criteria for determining the significance of transportation impacts must promote the:

- 1) Reduction of greenhouse gas emissions;
- 2) Development of multimodal transportation networks; and
- 3) Diversity of land uses.

The City has relied upon the recommendations provided by OPR and modeling data provided by OCTA to establish the following quantified thresholds of significance for VMT for land development projects:

- Residential projects: A significant transportation impact occurs if the project's home-based VMT per capita exceeds the base year citywide average VMT per capita.
- Non-residential projects: A significant transportation impact occurs if the project's employment VMT per employee exceeds the base year citywide average VMT per employee.
- Mixed-use projects: Both the residential and non-residential components of the project would be

analyzed separately, however, VMT reduction benefits due to internally captured trips and potentially other considerations that reduce VMT could be accounted for in the analysis.

The citywide average VMT per capita and VMT per employee values are determined using the base year OCTAM modeling statistics. Ensuring land use development projects reduce VMT rates to be at or below the current base year citywide average will result in an overall decrease in citywide VMT and GHG emissions.

### 3.4 Mitigation Measures

Mitigation measures are required in Environmental Impact Reports and Mitigated Negative Declarations to identify feasible alternatives and mitigation measures to avoid or substantially reduce a project's significant environmental impacts.

If a significant transportation impact is identified for a project, it will be the applicant's responsibility to submit a mitigation measure plan to reduce impacts to "Less Than Significant". Options include:

- Provision of on-site transportation infrastructure,
- On-site transportation demand management (TDM),
- Off-site infrastructure improvements including roadway improvements for active transportation and multimodal infrastructure, and/or
- Off-site multimodal improvements.

The *California Air Pollution Control Officers Association (CAPCOA) Quantifying Greenhouse Gas Mitigation Measures* report (2010) contains numerous potential VMT reduction strategies and a very broad range of percentage effectiveness of each measure. In lower density cities, such as Laguna Niguel, attaining the top end of the effectiveness range may not be attainable. A VMT spreadsheet calculator has been prepared that includes several example mitigation measures and uses a reduction effectiveness percentage toward the lower end of the CAPCOA report range. These example mitigation measures are shown in the table below and effectiveness percentages from CAPCOA are shown in more detail in Appendix C. Subject to City approval, project applicants are also able to provide alternative or supplementary mitigation measures in order to meet VMT thresholds or provide evidence to justify a higher percentage reduction.

**Table 1 - Potential Mitigation Measures**

	<b>Strategy</b>	<b>Purpose</b>	<b>City Calculator</b>	<b>CAPCOA where higher</b>
1	On-Site Pedestrian Network	Improve pedestrian network	1% VMT Reduction	0-2% VMT Reduction
2	Off-Site Bicycle Network	Provide exclusive bicycle facilities	1%-VMT Reduction	0.075% increase in bicycle commuting with each mile of bikeway per 100,000 residents
3	On-Site bikeshare	Implement bikeshare program	0.8 bicycle trips per bikeshare bike	0.03% reduction in VMT/ 1/3 vehicle trip reduced per bicycle
4	End of Trip Facilities	Providing convenience	2% VMT Reduction	2 - 5% reduction in commute vehicle trips
5	Unbundled Parking Costs	Separates parking cost	2.5% reduction per unbundled residential unit	2.6-13% reduction in vehicle trips
6	Electrical Vehicle Charging Station	Install electrical charging equipment	2 trip per day reduction per electric vehicle (EV)ownership	Substitution of non-EV trips 1:1

	<b>Strategy</b>	<b>Purpose</b>	<b>City Calculator</b>	<b>CAPCOA where higher</b>
7	Provide Parking Cash-Out Program	Incentives for no car	1% VMT Reduction per worksite	0.6-7.7% commute VMT reduction
8	Provide Bicycle Parking	Encourage bicycling	1 trip per 2.5 spaces	Part of overall improvement of design with 3-21.3% reduction
9	Provide Ride-Sharing Program	Increasing vehicle occupancy	1% commute trip reduction	1-15% commute trip reduction
10	Car Share Program	Reduce vehicle ownership	0.4% reduction	0.4-0.7% VMT reduction
11	Sponsor Vanpool/Shuttle	Provide means to work	2% reduction in commute trips	0.3-13.4% commute VMT reduction
12	Implement Transportation Demand Management Program – Required Implementation/Monitoring	Reduce drive-alone travel mode share and encourage alternative modes of travel	2% Residential/ Employee Trip Reduction	4.2% – 21.0% commute VMT reduction
13	Implement Subsidized or Discounted Transit Program	Encourage transit use by providing subsidy	0.3% Employee Trip Reduction	0.3-20% commute VMT reduction
14	Telecommuting and Alternative Work Schedules	Encouraging telecommuting and alternative work schedules reduces the number of commute trips	5.5% Employee Trip Reduction for Program	0.07-5.5% commute VMT reduction
15	Traffic Calming Measures	Reduce vehicle speeds	0.25% reduction per location	0.25 – 1.00% VMT reduction per location
16	Dedicate land for bike trails	Create off-street paths (per mile)	1% reduction per mile	Part of overall improvement of design with 3-21.3% reduction
17	Fair Share contribution to First/Last Mile project or other infrastructure	To support non-vehicle trips	Up to 2% Trip Reduction	Supportive of overall 0.1-8.2 VMT reduction for transit network improvement
18	Provide Bicycle Parking near Transit	Mode shift to biking and transit	0.1% per space up to six	Supportive of overall 0.1-8.2 VMT reduction for transit network improvement

The City will review, make necessary changes and approve the TDM plan. In addition, the City maintains a Transportation Demand Management Ordinance (Laguna Niguel Zoning Code – Subarticle 10).

### 3.5 Transportation Projects

Transportation projects not expected to increase VMT (such as intersection turn lanes, signalization, bicycle, pedestrian, or transit projects) would be presumed to have a “Less Than Significant” CEQA transportation impact. OPR Technical Advisory includes the following list of transportation projects that would not likely result in a significant increase in vehicle travel and therefore generally do not require an induced travel analysis:

- Rehabilitation, maintenance, replacement, safety, and repair projects designed to improve the condition of existing transportation assets.
- Installation, removal, or reconfiguration of traffic lanes that are not for through traffic, such as left, right, and U-turn pockets, two-way left turn lanes, or emergency breakdown lanes that are not utilized as through lanes.

- Addition of roadway capacity on local or collector streets provided the project also substantially improves conditions for pedestrians, cyclists, and, if applicable, transit.
- Addition of an auxiliary lane of less than one mile in length designed to improve roadway safety.
- Addition of a new lane that is permanently restricted to use only by transit vehicles.
- Reduction in number of through lanes.
- Grade separation to separate vehicles from rail, transit, pedestrians, or bicycles, or to replace a lane in order to separate preferential vehicles (e.g., HOV, HOT, or trucks) from general vehicles.
- Installation, removal, or reconfiguration of traffic control devices, including Transit Signal Priority (TSP) features.
- Installation of traffic metering systems, detection systems, cameras, changeable message signs and other electronics designed to optimize vehicle, bicycle, or pedestrian flow.
- Timing of signals to optimize vehicle, bicycle, or pedestrian flow.
- Installation of roundabouts or traffic circles.
- Installation or reconfiguration of traffic calming devices.
- Initiation of new transit service.
- Conversion of streets from one-way to two-way operation with no net increase in number of traffic lanes.
- Removal or relocation of off-street or on-street parking spaces.
- Adoption or modification of on-street parking or loading restrictions (including meters, time limits, accessible spaces, and preferential/reserved parking permit programs).
- Addition of new or enhanced bike or pedestrian facilities on existing streets/highways or within existing public rights-of-way.
- Addition of Class I bike paths, trails, multi-use paths, or other off-road facilities that serve non-motorized travel.
- Installation of publicly available alternative fuel/charging infrastructure.

Transportation projects that consist of adding additional through lanes, turn lanes, or other capacity on existing or new roadways have a less than significant impact, provided the improvement is less than one (1) mile in length<sup>2</sup>, consistent with the established General Plan Circulation Element Roadway

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<sup>2</sup> In the SCAG region, federal regulations stipulate that no federal funds be programmed for any project that significantly increases Single Occupancy Vehicle (SOV) capacity unless the project is addressed as part of a congestion management process. The FTIP,

Classifications and the improvements can accommodate multi-modal transportation, such as pedestrian, bicycle and transit facilities. Otherwise, these project types may lead to a measurable and substantial increase in vehicle travel.

For transportation projects not examined above, a significant impact would occur if the project results in an increase to the total baseline VMT in the City (not indexed to population or employment). This means that an assessment of total VMT without the project and an assessment with the project should be made; the difference between the two is the amount of VMT attributable to the project.

### **3.6 Cumulative Analysis**

Assessment of cumulative impacts is based on the inclusion of future foreseeable projects, as represented in the OCTA future year model scenario. However, A project that falls below the threshold(s) of significance aligned with long-term environmental goals and relevant plans would have no cumulative impact distinct from the project impact. Accordingly, a finding of a less-than-significant project impact would imply a less than significant cumulative impact, and vice versa.

## **4. LOS TRAFFIC IMPACT STUDY**

A LOS Traffic Impact Study is required by the City so that the impact of land use proposals on the existing and future circulation system can be adequately assessed. It is required:

- For all projects that will add 51 or more trips during either the AM or PM peak hours to any intersection. The City, at its discretion, may also require the preparation of a LOS Traffic Impact Study, or a limited scope LOS Traffic Impact Study, for projects that add less than 51 peak hour trips to an intersection but add one or more AM or PM peak hour trips to an intersection if there are concerns regarding traffic safety, operational issues, or if the development is located near a major arterial intersection, or area heavily impacted by traffic.
- When either the AM or PM peak hour trip generation is expected to exceed 100 vehicle trips from the proposed development.

### **4.1 LOS Traffic Impact Study – Scope**

If a LOS Traffic Impact Study is needed, the applicant is required to retain the services of a qualified registered Traffic Engineer or a registered Civil Engineer with experience in traffic engineering and draft a scope of work that will govern the conduct of the LOS Traffic Impact Study. The draft a scope of work is to be submitted to the Community Development Department (Planning Division) for review. Once received, City staff will either provide a letter confirming the scope of the LOS Traffic Impact Study or communicate other needed information or requirements. The scope of the LOS analysis may include, but not be limited to:

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as the programming document for all federal transportation funds, must be consistent with the regulations. CMP is required for any SOV capacity increasing project that adds at a minimum one (1) mile or more in length per agreement between SCAG and FHWA.

Source: SCAG Federal Transportation Improvement Program 2019 Guidelines

- Collection of existing intersection and mid-block vehicle count data (as a minimum, intersections where the project will add 51 or more trips during either the AM or PM peak hours will need to be analyzed; at the discretion of the City, this threshold may be reduced).
- Evaluation of intersections utilizing either intersection capacity utilization (ICU) methodology or Highway Capacity Manual (HCM) methodology as appropriate for each intersection.
- Evaluation of multiple existing, near-term, or long-term scenarios.
- Identification of proposed and potential roadway improvements.
- Calculation of fair-share cost contributions, if applicable.
- Evaluation of project trip generation rates and trip distribution and assignment assumptions.
- Evaluation of site access, internal circulation, and on-site parking.

The City's methodology for evaluating intersection performance is generally consistent with the County Congestion Management Program (CMP). The City utilizes a performance standard of LOS D or better and the County CMP utilizes LOS E or better. The performance criteria utilized by the City for a LOS analysis is summarized in Appendix D.

LOS Traffic Impact Study scopes of work for projects within the Laguna Niguel Gateway Specific Plan are also subject to the specific requirements of the adopted Specific Plan, including the Development Entitlement Management System (DEMS).

## 4.2 LOS Traffic Impact Study - Content and Format

As applicable, the LOS Traffic Impact Study should contain the following sections:

- 1) *Title Page* - This page should include the project name, project address (tract or parcel number if address is not yet established), project applicant's name and address, name of the traffic engineering firm and engineer who prepared the report along with their signature, address, phone number, stamp, and date report was prepared.
- 2) *Executive Summary* - A clear and concise description of the study findings. Pertinent information in this regard should include a brief overview of the project, a short discussion of the projects traffic generation potential, the expected impacts of the project, and a summary of measures necessary to address resultant project impacts (if applicable).
- 3) *Introduction* - A detailed description of study procedures, plus a general overview of the proposed project site and study area boundaries, existing and proposed site uses, and existing and proposed roadways and intersections within the defined study area (defined study area to be determined by City staff as a part of the Traffic Assessment scoping process). Exhibits required for this section include a regional map showing the project vicinity and a site layout map.
- 4) *Project Description* - Detailed project information, including location. Exhibits in this section should include, at a minimum, a clear illustration of the project in terms of a site plan, its density, adjacent roadways, on-site parking supply, proposed traffic circulation within the project, gross square footage, number of rooms/units, phasing, and other descriptions as appropriate.

This section should also include a definition of Regional and Local access including any Congestion Management Program (CMP) roadways or intersections which will serve the proposed project. This includes all major access routes to the site with descriptions of the most likely routes to be utilized.

5) *Baseline Conditions* - Minimum information in this section should include generalized geometric descriptions (e.g., roadways as classified by the Laguna Niguel General Plan with the pavement and the right-of-way widths). A description should also be provided for existing traffic volumes that use the particular facility (include the source of the traffic count information). The adequacy of pedestrian facilities and the accessibility of bicycles and from adjacent transit stops shall also be described.

An exhibit showing the various roadways in the study area and presenting peak hour traffic count information, as well as a table showing daily (24-hour) volumes and Master Planned roadway configurations, should be included. All traffic counts used need to have been surveyed within 24 months of the LOS Traffic Impact Study completion date unless otherwise approved by the City Traffic Engineer or designee.

6) *Traffic Generation Forecast* - The project trip generation should generally be calculated using rates from the latest edition of the Trip Generation Manual published by the Institute of Transportation Engineers (ITE). If a project is anticipated to have a regional impact then City staff may require the project to be analyzed using the Orange County Traffic Analysis Model (OCTAM) in which case the trip generation would be calculated by the OCTAM land use conversion factors.

If the generation rates do not address the proposed land use(s) in sufficient detail, rates from other documented sources may potentially be used with prior approval from the City staff. This may include, for example, trip generation derived from locally observed data that includes trip generation samples from at least three (3) similar facilities. The facilities selected as samples must be approved by City staff prior to data collection as a part of the Traffic Assessment scoping process.

Any proposed trip credit for existing operating uses that will be replaced by the proposed project should be identified. Additionally, any proposed trip generation reductions for “pass-by,” internal capture, and/or transit trips should also be identified and approved by City staff.

A table summarizing the types of land use(s) proposed, the corresponding generation rates, and project trip generation should be included. Documented reductions to generated values as discussed above or for any “pass-by” and transit trips must be presented in the generation forecast as well.

7) *Traffic Distribution and Assignment* - Description of trip distribution and directional approach for vehicle trips to and from the project site along with the specific roadways that would be utilized by site-generated traffic should be provided. The basic methodology and assumptions used to develop trip distribution and assignments must be clearly stated. The City may have significant input into these areas, which should be identified during the Transportation Assessment scoping process.

As part of the analysis, a graphic that shows project distribution by percentage and the direction of travel should be included.

8) *Traffic Impact Analysis* - The following analysis scenarios should be evaluated and summarized. For each condition, a summary table should also be provided.

- Existing Conditions: Analysis of existing traffic conditions, which will serve as a base of analysis for the remainder of the study. All traffic count information used to represent existing conditions should be no more than 24 months old at the time of Planning Division letter of scope approval. However, if deemed applicable, it will be at the discretion of the City to request updated counts. Wherever possible, traffic counts should be taken on Tuesday through Thursday while schools are in session and avoiding holidays. Traffic counts from the day after a holiday should also be avoided where possible. Additionally, the raw data from sources other than the City, on which existing conditions are based, must be supplied in the LOS Traffic Impact Study appendix identifying the source.
- Existing Conditions Plus Project: Projected traffic generated by the proposed project plus existing traffic conditions.
- Opening Year – Without Project: Existing traffic conditions plus modeled traffic from all the development within the study area for which an application has been submitted ("pending projects"), or that have been approved but not yet constructed for the anticipated opening year of the project.

For projects planned for construction more than two years beyond existing conditions, an ambient traffic growth factor is to be included to account for annual increases in background traffic. This factor will be determined by the City Traffic Engineer or designee, although traffic forecasts from OCTAM have determined that a growth factor of 0.75% per annum represents the current estimated average yearly traffic growth within the City.

- Opening Year – Plus Project: Projected traffic generated by the proposed project in addition to the Opening Year – Without Project forecasts.
- Project Phasing (if applicable): Projects that are to be constructed in more than one phase will require interim year future analysis to address each phase of the development and associated traffic impacts. The year(s) to be analyzed will coincide with the scheduled phasing and will be approved by the City Traffic Engineer or designee.
- General Plan Buildout – Without Project: Buildout of Laguna Niguel General Plan combined with buildout of circulation system. OCTAM Buildout projections will be used for this purpose. A General Plan buildout analysis is generally required for any project that contributes traffic to an intersection projected to have unacceptable LOS, any project that requires a General Plan Amendment or otherwise proposes development that exceeds the land use intensity assumed for the General Plan, and/or at the discretion of the City Traffic Engineer or designee.
- General Plan Buildout – Plus Project: Projected traffic generated by the proposed project in addition to the cumulative traffic conditions of General Plan Buildout.

9) *Capacity Analysis* - Capacity analysis should be conducted at identified mid-block segments and intersections within the study area and at all proposed access points to the project. Intersection capacity calculations should be made using the ICU method unless the consultant conducting the LOS Traffic Impact Study and/or City Traffic Engineer or designee identify locations that can be better evaluated using the Operational or Planning Analysis methodologies found in the latest editions of the Highway Capacity Manual (HCM). Pre-approval to use HCM shall be obtained in writing from the City Traffic Engineer or designee. Use of the HCM methodology, in addition to an ICU-type analysis,

will be required at any study area intersection under the control of Caltrans. The capacity of individual lane type to be used in the ICU calculations are as shown below.

- Left Turn Lanes 1,700 vehicles per hour
- Through Lanes 1,700 vehicles per hour
- Right Turn Lanes 1,700 vehicles per hour
- Shared Lanes 1,700 vehicles per hour

Yellow clearance/lost time should always be 0.05 ICU.

If the distance from the edge of the outside through lane is at least 19 feet and parking is prohibited during the peak period, right turning vehicles may be assumed to utilize this "de facto" right turn lane. Otherwise, all right turn traffic shall be assigned to the outside through lane. If a right turn lane exists, right turn overlap may be assumed, if not prohibited at that location. However, the assumption of the number of vehicles turning right during the overlap phase cannot conflict with any other critical movement at that intersection. Any signal overlap assumptions must be clearly stated.

Pedestrian adjustments should be performed on a case-by-case basis and assessed according to the procedures outlined in of the latest version of the HCM for those intersection that have more than 100 pedestrians in the peak period.

10) *LOS Analysis* - Acceptable performance criteria for local transportation facilities are established in the Laguna Niguel General Plan Circulation Element's LOS policies. A significant impact would occur at a study intersection when project-related traffic causes:

- A signalized intersection to degrade from an acceptable LOS D or better to LOS E or LOS F; or
- The volume to capacity (V/C) ratio to increase by more than 0.01 at a signalized intersection operating at LOS E or LOS F.

If an intersection is operating at LOS E or worse and a significant impact is anticipated (V/C ratio increase of more than 0.01), improvement is needed to improve intersection operations equal to the project-generated impact on the operation of the intersection. If an impact drops from LOS D or above to LOS E or F, improvement is required to bring the LOS back to the acceptable threshold level (LOS D) as a part of the project approval. No improvement is required for intersections operating at or above the acceptable threshold.

The LOS Traffic Impact Study should include a table identifying whether the project has a significant impact at any of the study area intersections or roadway segments. Improvement(s) would be required to pre-project conditions or the project would need to participate on a "fair-share" basis to the appropriate road fee programs (if any). A project fair share percentage table should be calculated at all study area intersections to show the project's impact to the street network. Fair share shall be calculated by determining the project's percent contribution to an intersection's critical movement(s) [project's contribution in volume to critical movements divided by total critical movements volumes] attributable to the significant impact at the intersection, and applying that percentage to the cost of planned improvement necessary to mitigate the impacts to the intersection.

11) *Site Access and Internal Circulation* - Project access and internal circulation analysis based upon the proposed land use(s) and site plan proposed for the project. Any recommended off-site operational or physical changes should be identified. The analysis should, as appropriate, include an evaluation of the following:

- Location and design of project site access points/driveways including potential signalization.<sup>3</sup>
- Through and/or turn lanes into and out of the project site.
- Vehicular and pedestrian sign distance.
- Need for traffic signal coordination.
- Pedestrian and bicycle connectivity.
- On/off-site delivery truck circulation.
- Any other considerations identified during the Traffic Assessment scoping process.

12) *On-Site Parking* - Evaluation of on-site vehicle and bicycle parking supply versus the parking required per the Laguna Niguel Zoning Code (Subarticle 6). If the proposed development is of mixed-use type, a table shall be included presenting each land use, its size, and the code parking requirement. This table should clearly indicate how the code parking was calculated and include the proposed on-site parking supply together with the resultant surplus or deficit from code requirements.

In some cases, specialized uses may require parking rates not identified in the City's parking code, and as such, special parking demand studies should be provided to assess the adequacy of parking. Data from at least three (3) similar sites should be included in any specialized studies. The facilities selected as samples should be approved by City Staff prior to data collection.

13) *Construction* - All projects should anticipate construction impacts with new development. To the extent possible, operational analysis should include information about project construction schedule such as duration, hours or operations, any required import or export, potential haul routes, traffic control plans and street closure.

14) *Recommendations* - The LOS Traffic Impact Study should include a list of recommendations to be incorporated as part of the project conditions. These recommendations should be included in both written and graphic form within the traffic study.

15) *Conclusion* - A summary and conclusion section should be included to summarize the findings of the traffic study. The conclusion section would identify the impact of the proposed project and refer to the recommendations included in the LOS Traffic Impact Study to address the impacts.

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<sup>3</sup>When a traffic signal warrant analysis is determined necessary for an unsignalized intersection by the City Traffic Engineer or designee, the assessment is to be performed using the latest adopted Manual of Uniform Traffic Control Devices (MUCTD) or California Supplement. The warrant analysis is to be included in the LOS Traffic Impact Study appendices.

## APPENDIX A

### Technical Memorandum of Facts, Reasonable Assumptions and Expert Opinions

# MEMORANDUM

**To:** City of Laguna Niguel

**From:** Chris Devlin, Sean Daly, Iteris, Inc.

**Date:** November 4, 2020

**RE:** SB 743 Implementation in Laguna Niguel – Facts, Reasonable Assumptions, and Expert Opinion

## EXECUTIVE SUMMARY

Starting in July 2020, California Environmental Quality Act (CEQA) lead agencies including the City of Laguna Niguel, must conduct CEQA transportation analysis in conformance with Senate Bill 743 (SB 743). It directs that measures of vehicle congestion and delay will no longer be accepted as an environmental impact.

A recommended new metric for CEQA transportation analysis was developed by the Governor's Office of Planning and Research (OPR) based on the vehicle miles traveled (VMT), total distance of vehicle travel associated with a Project. This shift in CEQA transportation metric promotes outcomes intended to reduce reliance on automobile travel which align with State goals for reducing emissions, investing in multimodal transportation networks and encouraging higher density in-fill development.

The two components of the VMT are the number of vehicle trips generated and the distance they travel. The primary determinants of vehicle trips are household demographics—their size and composition—and their economic circumstances, particularly employment status and income level. The geographic distribution of households, employment, schools, shopping and recreational destinations influence the distance of travel.

In general, VMT is lower in areas where there are a diversity of land uses in close proximity—shortening trips—and where there are multimodal transportation networks—reducing the need for vehicle travel.

Since assessing total VMT would disadvantage larger projects—and generally discourage economic growth, OPR recommends the use of an “Efficiency Metric” or index of VMT by population and employment.

State law does not prohibit using the traditional, operations-based level of service analysis for non-CEQA purposes, and most Cities are retaining traffic studies to ensure adequate public infrastructure consistent with General Plan policies.

The change in metric alters CEQA transportation analysis in many ways:

- The impact being evaluated previously was the adequacy of roadway operations (i.e. congestion) now it will be tied to greenhouse gas emissions;
- The daily length of all trips per person or employee;
- The time period of level of service analysis is generally during the morning and evening peak hours whereas VMT looks at all travel during the course of a day;
- Level of service has a lot to do with the amount and quality of vehicle infrastructure while VMT is mostly influenced by land use patterns;

- Level of Service analysis looks at localized impacts while VMT analysis is regional in nature—measuring all travel even outside of the City—in fact the farther away from the City trips are made, the greater the impact;
- And finally, mitigation for level of service impacts tends to result in infrastructure improvements, while mitigation for VMT impacts tends to be for non-vehicle travel such as walking, biking, and transit, and land use mix.

The new CEQA guidelines provide for a number of screening criteria, by which a project could be presumed to be less than significant without undergoing detailed analysis:

- Projects that are too small to generate a significant number of trips or are redevelopment sites with net trips below a net significant number of trip;
- Projects located in an area that has low VMT under existing conditions;
- Transit Priority Areas – one half mile around major transit stops including the Laguna Niguel Metrolink station;
- Neighborhood retail that primarily serves the local community;
- Affordable housing units; and
- Projects focused on services that primarily serve the community such as schools, parks, community center, daycare and libraries.

A number of approaches appropriate for the analysis of different types of projects in the City were reviewed. The following thresholds of significance are recommended based on project type:

- The City's thresholds of significance for development projects and land use plans is based on residential VMT per capita or employment VMT per employee compared to the City's base year<sup>1</sup> average. A significant impact would occur if the VMT per capita or VMT per employee exceeds the citywide baseline average.
- For Transportation Projects, a significant impact would occur if the project would result in an increase to the total baseline VMT in the City (not indexed to population nor employment).

Projects that exceed the citywide baseline average VMT rate would be considered to have a potentially significant transportation impact and require mitigation to reduce VMT to be equal to or below the applicable City threshold. If a project exceeds the significance threshold after all feasible mitigation has been applied, then a potentially significant and unavoidable impact may occur.

To conform to State law, it is recommended the City of Laguna Niguel adopt a resolution approving guidelines that directs the use of transportation analysis consistent with current State CEQA Guidelines. This includes the use of VMT metrics for CEQA transportation analysis. The Departments of Community Development and Public Works intend to detail the approach for CEQA transportation analysis and non-CEQA traffic studies in "Transportation Assessment Guidelines."

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<sup>1</sup> The City's "base year" is the base year of the travel demand model used for the analysis. If the most recent OCTAM baseline model scenario is not used, the applicant should state a reason.

# 1.0 INTRODUCTION

Beginning July 1, 2020, CEQA analysis for determining potential significant transportation impacts will transition from an automobile delay or capacity measure to a VMT metric in evaluating a project's environmental impacts under CEQA as required by SB 743. As recommended by the California Office of Planning Research (OPR) and adopted as California Natural Resources Agency guidance, the following relevant changes to CEQA guidance were adopted in 2018:

- Implementing SB 743, new Guidelines section 15064.3 establishes VMT as the most appropriate measure of transportation impacts, shifting away from the level of service analysis that evaluated a project's impacts on traffic conditions on nearby roadways and intersections.
- Section XVII of Appendix G (Environmental Checklist) previously titled "Transportation/Traffic" now renamed "Transportation," and is significantly revised to reflect the State's new focus on reducing VMT and the near elimination of concern with degrading level of service as it pertains to vehicle operations.

This shift in CEQA transportation metric promotes outcomes that reduce reliance on automobile travel which align with State goals for reducing emissions, investing in multimodal transportation networks and encouraging higher density in-fill development.

In order to comply with State law, the City of Laguna Niguel is developing Transportation Assessment Guidelines, which address VMT consistent with SB 743. This memorandum provides the technical background, analysis, and recommendations for these Guidelines. These Guidelines also provide the methods to analyze transportation impacts from plans and projects, including screening criteria, thresholds of significance, calculation methods, and mitigation measures to assist applicants in complying with CEQA when the City of Laguna Niguel is the CEQA lead agency.

The technical memorandum has the following sections:

1. SB 743 Background
2. Recommended Framework of CEQA Transportation Analysis including screening criteria
3. Threshold(s) of Significance
4. Potential Trip Reduction and Mitigation Measures
5. Estimated Threshold of Significance Potential

As a next step, draft Transportation Assessment Guidelines will be prepared for adoption by the City Council in accordance with CEQA Guidelines: California Code Regulations Title 14. Natural Resources, Division 6. California Natural Resources Agency, Chapter 3. Guidelines for the Implementation of the CEQA.

## 1.1 SB 743 Background

Senate Bill 743 (Steinberg, 2013), which was codified in Public Resources Code section 21099, required changes to the guidelines implementing CEQA (CEQA Guidelines) (Cal. Code Regs., Title 14, Div. 6, Ch. 3, § 15000 et seq.) regarding the analysis of transportation impacts.

Pursuant to Section 21099, the criteria for determining the significance of transportation impacts must "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." (Id., subd. (b)(1); see generally, adopted CEQA Guidelines, § 15064.3, subd. (b) [Criteria for Analyzing Transportation Impacts].) To that end, in developing the criteria, the Office of Planning and Research proposed, and the California Natural Resources Agency (Agency) certified and adopted, changes to the CEQA Guidelines that identify vehicle miles traveled (VMT) as the most appropriate metric to evaluate a project's transportation impacts. With the California Natural Resources Agency's certification and adoption of the changes to the CEQA Guidelines, automobile delay, as measured by "level of service" and other similar metrics of vehicle operation, generally no

longer constitutes a significant environmental effect under CEQA. (Pub. Resources Code, § 21099, subd. (b)(3).). The Office of Administrative Law approved the CEQA Guideline updates on December 28, 2018.

The new CEQA Guidelines (Section 15064.3, Determining the Significance of Transportation Impacts) requires all CEQA lead agencies analyze a project's transportation impacts using a VMT metric exceeding an applicable threshold by July 1, 2020.

The CEQA Guidelines give lead agencies discretion to choose the most appropriate methodology to evaluate a project's VMT impacts, however the methodology must be based on substantial evidence. Importantly, SB 743 "does not preclude the application of local general plan policies, zoning codes, conditions of approval, thresholds, or any other planning requirements pursuant to the police power or any other authority." (Pub. Resources Code § 21099(b)(4).). Thus, it does not preclude the on-going use of congestion measures as a project performance metric for operational analysis for conformance with planning for new development consistent with community values. However, the operations analysis would not be applicable to determining significance under CEQA.

The two sections of the comprehensive CEQA guideline update relevant to CEQA transportation analysis are included in their entirety as follows.

### *New Section 15064.3. Determining the Significance of Transportation Impacts.*

#### (a) Purpose.

This section describes specific considerations for evaluating a project's transportation impacts. Generally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, "vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact.

#### (b) Criteria for Analyzing Transportation Impacts.

(1) **Land Use Projects.** Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high-quality transit corridor should be presumed to cause a less than significant transportation impact. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact.

(2) **Transportation Projects.** Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.

(3) **Qualitative Analysis.** If existing models or methods are not available to estimate the vehicle miles traveled for the particular project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.

(4) **Methodology.** A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental

document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.

(c) Applicability.

The provisions of this section shall apply prospectively as described in section 15007. A lead agency may elect to be governed by the provisions of this section immediately. Beginning on July 1, 2020, the provisions of this section shall apply statewide.

Note: Authority cited: Sections 21083 and 21099, Public Resources Code. Reference: Sections 21099 and 21100, Public Resources Code; Cleveland National Forest Foundation v. San Diego Association of Governments (2017) 17 Cal.App.5th 413; Ukiah Citizens for Safety First v. City of Ukiah (2016) 248 Cal.App.4th 256; California Clean Energy Committee v. City of Woodland (2014) 225 Cal. App. 4th 173.

### *Environmental Checklist for Transportation*

Section XVII of Appendix G (Environmental Checklist) previously titled “Transportation/Traffic” now renamed “Transportation,” and is significantly revised to reflect the State’s new focus on reducing VMT and the near elimination of concern with degrading level of service. Section XVII was revised to reduce the duplication between former subsections (a) and (f) concerning a project’s conflicts with circulation plans (including vehicle, transit, bicycle, pedestrian). Subsection (b) of Section XVII now cross-references the requirements in new Section 15064.3. Subsection (c) regarding changes in air traffic patterns was eliminated. Finally, subsection (d) regarding hazards, was clarified to refer to “geometric design features”.

Below are the text revisions to section XVII, with previous text **bolded**, inserted text underlined and removed text ~~struck through~~.

### XVII. TRANSPORTATION/TRAFFIC.

Would the project:

~~Conflict with an applicable program plan, ordinance or policy establishing measures of effectiveness for the performance of addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?~~

~~Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)(1)? Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?~~

~~Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?~~

~~d) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?~~

~~ed) Result in inadequate emergency access?~~

~~f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?~~

## 2.0 RECOMMENDED FRAMEWORK OF CEQA TRANSPORTATION ANALYSIS IN THE CITY OF LAGUNA NIGUEL

A framework for CEQA transportation analysis in the City of Laguna Niguel was developed to set overall parameters of the methodology. The framework is based on City of Laguna Niguel policies, technical advisories and guidance from OPR and the Natural Resources Agency.

CEQA lead agencies determine significance thresholds, analysis methodology, and whether any particular mitigation measure is feasible in the context of the project under review. Further, CEQA allows a lead agency to approve a project that has significant environmental impacts so long as it finds that the benefits of the project outweigh those impacts.

The four outcomes of CEQA transportation analysis for a project are:

1. **Screened from Further Analysis:** Screened from analysis and presumed to be less than significant based on screening thresholds.
2. **Less than Significant:** Not screened from analysis and a CEQA transportation analysis is conducted which found the project to be less than significant.
3. **Less than Significant After Mitigation:** Not screened from analysis and a CEQA transportation analysis is conducted which found the project to be potentially significant, feasible mitigation measures are applied and the project has less than significant transportation impacts after mitigation.
4. **Statement of Overriding Considerations:** Not screened from analysis and a CEQA transportation analysis is conducted which found the project to be potentially significant, feasible mitigation measures are applied, and a project cannot achieve less than significant transportation impacts after mitigation and an Environmental Impact Report with a Statement of Overriding Considerations for the transportation impacts associated with the project is needed.

CEQA transportation analysis in the City is focused on the impact of automobile and light truck VMT from residents and employees: Section 15064.3, subdivision (a), states, “For the purposes of this section, ‘vehicle miles traveled’ refers to the amount and distance of automobile travel attributable to a project.” Here, the term “automobile” refers to on-road passenger vehicles, specifically cars and light trucks.

Projects will be analyzed for the entire VMT of their trips, even outside of the City. A project’s change in VMT will be analyzed and assessed on a per capita and/or per employee and compared to the average Citywide baseline in order to use an efficiency-based metric and determine whether a potential significant transportation impact would occur.

The tool used to calculate the Citywide VMT and efficiency metrics of VMT was the Orange County Transportation Analysis Model (OCTAM) which is a subarea model of the Southern California Association of Government’s (SCAG) travel demand model. An individual project’s VMT per capita or per employee would be derived from the average VMT from the model traffic analysis zone (TAZ) the project is located. Since VMT is primarily a function of the location of a project, and the TAZ is the smallest geography in the Model, a project will be assumed to have the same average VMT characteristics as neighboring development within the TAZ. There are 36 TAZs in the City of Laguna Niguel (see **Figure 3**). A project applicant could provide their own VMT information, provided it is based on methods and assumptions approved by the City.

**Table 1 – OCTAM VMT and Socioeconomic data**

Home-based VMT per Capita	24.9
Home-based work VMT per Employee	24.0
Total Population	65,410
Total Employment	19,007
Population per Occupied Household	3.0
Office Employees per TSF	3.5
Total Citywide VMT	2,614,901

The SCAG travel demand model is updated every four years, with OCTAM updated subsequently. Baseline VMT values will be updated when a new model is released. The existing/baseline year of the model will be used for CEQA baseline conditions and the future year (approximately 20-year forecast) scenario will provide future year and cumulative analysis VMT information. The City can update its transportation analysis guidelines with information from OCTA with future releases of OCTAM data.

## 2.1 Factors that Determine VMT

The fundamental components of the vehicle miles traveled from a site or area are the number of vehicle trips generated and the distance they travel. In the case of passenger VMT, several factors exert influences on households' ownership and use of motor vehicles. The primary determinants of personal motor vehicle travel are household demographics—including the total number of households as well as their size, composition, and geographic distribution—and their economic circumstances, particularly the employment status and income level.

These factors collectively affect household members' participation in activities outside of the home – working, shopping, conducting personal business, and recreation—which is the underlying source of their demand to travel. In turn, household members choose among non-motorized forms of travel (such as walking and cycling), public or school-provided transportation services, and travel in personal vehicles to satisfy their demands for travel.

The geographic distributions of households, employment opportunities, industrial facilities, and shopping and recreational destinations influence the use of both passenger vehicles and freight vehicles which put demand on transportation networks to complete desired connections.

With high investment in vehicle infrastructure and suburban development, Southern California is associated with high levels of vehicle use for trips and relatively long trip distances which both contribute to high levels of VMT. The following factors are correlated with lower VMT:

**Land Use Density** – Higher density areas encourage shorter and non-vehicle trips due to concentrating destinations, convenient walking and biking and support of more effective public transportation.

**Land Use Diversity** – A variety of land uses, services and types of destinations in close proximity reduce the need for long-distance driving.

**Mixed Use Development** – Similar to land use diversity, mixed-use developments present the opportunity for the internal capture of residential, employee and retail trips. Further, the introduction of residential units in predominately employment areas or work space in predominately residential areas improve jobs-housing balance and would reduce overall VMT.

**Telecommuting/Home-based work** – The improvement in technology and video conferencing is rapidly changing how and where people work. Additionally, home designs with certified wi-fi and floor plans within home offices are increasing the percentage of people who work from home on a regular or limited basis.

**Affordable Housing** – Affordable housing allows workers to live closer to work in areas and improve jobs-housing balance. In areas where existing jobs-housing match is closer to optimal, low income housing nevertheless generates less VMT than market- rate housing. Based on guidance from OPR, affordable housing units are screened out from VMT analysis, whether a stand-alone affordable project or a mix of affordable and market-rate units.

**Redevelopment and Infill Projects** – Redevelopment of infill sites allow for higher density and a new destination to an established area.

**Access to Transit** – Access to high-quality transit service that meets travel needs by being cost and time competitive with vehicle travel significantly reduces dependence on vehicles for travel.

**Pedestrian and Bicycle-Oriented Transportation Networks** – Similar to access to transit, pedestrian and bicycle networks that serve as high-quality connections reduce the use of vehicles.

In summary, a diversity of land uses and access to multimodal transportation networks promote the reduction in VMT and its associated greenhouse gas emissions.

## 2.2 Recommended Screening Criteria

With the California Natural Resources Agency's certification and adoption of the changes to the CEQA Guidelines, automobile delay, as measured by "level of service" and other similar metrics, no longer constitutes a significant environmental effect under CEQA. It is replaced with a VMT metric which measures the distance traveled by vehicles produced by and attracted to a proposed project.

Since the SB 743 law is intended to provide CEQA relief to projects that support the State's GHG emission goals the screening of projects as presumed as less than significant is an incentive for development in areas where vehicle trips are shorter or where other modes of transportation are supported. The screening therefore limits the technical analysis of CEQA transportation impacts to those projects which have the potential of significant impacts.

Determining whether a project may have a significant effect plays a critical role in the CEQA process. As identified by OPR in its technical advisory for SB 743 implementation (December 2018), there are a number of project conditions which may result in it being presumed to have a less than significant transportation impact.

The following project conditions are recommended to be considered in the review of projects prior to or at the CEQA Checklist stage to determine if a project can be presumed to have a less than significant CEQA transportation impact or if a specialized study is required for that determination. Nevertheless, the City should maintain discretion to approve a project applicant's conditions for a presumption of less than significant to be applicable.

### *Small Projects*

OPR suggests a small project that would generate 110 trips per day or less generally may be assumed to cause a less-than-significant transportation impact and thus not warrant further VMT analysis. Several cities are adopting higher trip thresholds for small projects. An ITE report on behalf of the San Diego Association of Governments (SANDAG) recommended that the small projects threshold be based on regional standards for transportation analyses that were documented in the Guidelines for Traffic Impact Studies in the San Diego Region (ITE/SANTEC, 2000) and have been in use for over 18 years. Their recommendation was that for projects consistent with the General Plan or Community Plan, VMT impacts could be presumed insignificant for projects generating less than 1,000 daily trips. For Projects inconsistent with the General Plan or Community Plan, VMT impacts could be presumed insignificant for projects generating less than 500 daily trips ([www.SANDAG.org\SB743](http://www.SANDAG.org\SB743)).

Another approach to defining small projects is through the stated goal of achieving GHG reduction through VMT analysis. The California Air Resources Board (CARB) stated in its 2017 Scoping Plan:

"Employing VMT as the metric of transportation impact statewide will help to ensure GHG reductions

planned under SB 375 will be achieved through on-the-ground development, and will also play an important role in creating the additional GHG reductions needed beyond SB 375 across the State.”

Therefore, the link between GHG reduction and VMT analysis can be used to screen projects, and a small project is one that generates less GHG emissions than thresholds established by the South Coast Air Quality Management District (SCAQMD).

Analysis by air quality specialists at LSA Associates compared GHG emissions to average daily trips using defaults in the CalEEMod model. The analysis concluded GHG emissions from a project of less than 500 daily could typically be considered less than significant, as follows:

*“In order to characterize the effect of changes in project-related average daily trips (ADT) to the resulting greenhouse gas (GHG) emissions the air quality model CalEEMod was used. This model was selected because it is provided by the California Air Resources Board to be used state-wide for developing project-level GHG emissions. CalEEMod was used with the built-in default trip lengths and types to show the vehicular GHG emissions from incremental amounts of ADT. The following table shows the resulting annual vehicle miles traveled (VMT) and GHG emissions from the incremental ADT:*

**Table 2 - Representative VMT and GHG Emissions from CalEEMod**

Average Daily Trips (ADT)	Annual Vehicle Miles Traveled (VMT)	GHG Emissions (Metric Tons CO <sub>2</sub> e per year)
200	683,430	258
300	1,021,812	386
400	1,386,416	514
500	1,703,020	643
600	2,043,623	771

Source: CalEEMod version 2016.3.2. Example project used: 50 Single-Family Homes in Orange County.

CO<sub>2</sub>e = carbon dioxide equivalent GHG = Greenhouse Gas

A common GHG emissions threshold is 3,000 metric tons of carbon dioxide equivalent<sup>[1]</sup> (CO<sub>2</sub>e) per year (MT CO<sub>2</sub>e/yr). The vehicle emissions are typically more than 50 percent of the total project GHG emissions. Thus, a project with 500 ADT would generally have total project emissions that would be less than 1,300 MT CO<sub>2</sub>e/yr. As this level of GHG emissions would be less than 3,000 MT CO<sub>2</sub>e/yr, the emissions of GHG from a project up to 500 ADT would typically be less than significant.

Carbon dioxide equivalent (CO<sub>2</sub>e) is a concept developed to provide one metric that includes the effects of numerous GHGs. The global warming potential (GWP) of each GHG characterizes the ability of each GHG to trap heat in the atmosphere relative to another GHG. The GWPs of all GHGs are combined to derive the CO<sub>2</sub>e.”

Source: LSA Associates, Jan 15, 2020

Additional supporting justification shown in **Table 3** is taken from publicly available work performed for the City of Laguna Hills using the CalEEMod Version 2016.3.2 which was used to calculate GHG emissions for six (6) common land uses. The quantities in each of the tested land use generates 500 daily trips and all land use categories generate less than the SCAQMD significance threshold of 3,000 Metric Tons of Carbon Dioxide Equivalents per Year.

**Table 3 – Estimated GHG Emissions for 500 Daily Trips Screening Criteria**

Emissions Source	MTCO <sub>2</sub> e/Yr <sup>1</sup>					
	Single Family (53 DU)	Multifamily (68 DU)	Senior Housing (135 DU)	General Office (51.3 TSF)	General Retail (13.2 TSF)	Light Industrial (100.8 TSF)
<b>Mobile Sources</b>	1,546.3	1,526.9	1,477.6	610.7	486.1	1,049.5
<b>Energy Sources</b>	209.3	137.0	280.3	254.7	49.7	423.7
<b>Area Sources</b>	17.9	23.0	45.6	0.0	0.0	0.0
<b>Water</b>	26.8	34.4	68.3	70.2	7.5	141.6
<b>Waste</b>	31.3	15.7	31.2	24.0	7.0	69.1
<b>Total Annual GHG Emissions</b>	<b>1,831.6</b>	<b>1,737.0</b>	<b>1,903.0</b>	<b>959.5</b>	<b>550.3</b>	<b>1,683.8</b>
<b>SCAQMD Threshold</b>	3,000 <sup>2</sup>					
<b>Exceed Threshold?</b>	No	No	No	No	No	No
<b>Percent Below Threshold</b>	39%	42%	37%	68%	82%	44%

<sup>1</sup>MTCO<sub>2</sub>e = Metric Tons of Carbon Dioxide Equivalents per Year

<sup>2</sup> 3,000 MTCO<sub>2</sub>e is also commonly used by the City of Laguna Niguel as a Greenhouse Gas Emission threshold for CEQA purposes.

Furthermore, the scale of projects at a 500 daily trip small project level is equivalent to the City's requirement of a LOS Traffic Impact Study for projects that add 51 or more trips during peak hours—peak hours are generally 10 percent of the total daily trips. This would mean the standard for review for both CEQA transportation assessment and LOS Traffic Impact studies would be consistent.

Therefore, based on an analysis of GHG emissions, project with 500 daily trips or less are considered small projects and screened from VMT analysis.

To put projects of 500 daily trips into perspective, **Table 4** shows the approximate percentage change on total Citywide VMT for typical residential and non-residential development projects that produce 110, 250, and 500 daily trips. The calculations were based on VMT statistics taken from OCTAM and socioeconomic data as shown in **Table 4**. A 500 daily trip project would add around 0.16% of VMT to Citywide VMT.

**Table 4 – Project Percentage of Citywide VMT**

Type	Land Use	110 trips <sup>1</sup>	250 trips <sup>1</sup>	500 trips <sup>1</sup>
<b>Residential</b>	Single Family (DU)	11	26	53
	Multifamily (DU)	15	34	68
	Average (DU)	13	30	60.5
	Percent Increase in Citywide VMT	0.04%	0.09%	0.17%
<b>Employment</b>	General Office (TSF)	11.3	25.65	51.3
	Percent Increase in Citywide VMT	0.04%	0.08%	0.16%

<sup>1</sup>Daily trips calculated from ITE Trip Generation Manual, 10th Edition, 2017.



**City of Laguna Niguel Recommendation:** Considering the link between GHG emissions and VMT established by CARB and the State Legislature, the use of 500 daily trips as the VMT screening threshold for small projects is proposed. Therefore, small projects that generate 500 daily trips or less based on ITE trip generation rates for proposed land uses are deemed exempt from further VMT analysis and VMT impacts are considered less than significant.

### *Redevelopment Projects*

Where a proposed project replaces existing VMT-generating land uses that constitutes a baseline condition under CEQA, and the replacement uses lead to a net overall decrease in VMT, the project would lead to a less-than-significant transportation impact. If the project leads to a net overall increase in VMT, then the thresholds developed by the jurisdiction should apply.



**City of Laguna Niguel Recommendation:** One of the intended goals of SB 743 is to support infill development to encourage active transportation and reduce average trip lengths. In order to encourage such infill development, OPR suggests using a metric that looks at only the net trips generated by the redevelopment project (project trips generated by the new development minus trips generated by the previous development). For redevelopment projects, the calculation of net project trips generated in accordance with OPR advice is proposed. If the net trips generated by the redevelopment is less than the Small Project trip threshold of 500 daily trips (as discussed in the prior section) then no additional analysis is required. If a redevelopment project does not meet this screening criteria, then the redevelopment project is evaluated for impact analysis based on the applicable residential or non-residential VMT rate methodology, as further discussed in subsequent sections of this document.

### *Map-Based Screening of Projects Within Low VMT Areas:*

Residential and office (or other land use) projects that are located in areas with low VMT, and that incorporate similar features (i.e., density, mix of uses, transit accessibility), will tend to exhibit similarly low VMT and thus not warrant further CEQA analysis. Maps created with VMT data from a travel demand model can illustrate areas that are currently below the City average threshold VMT.

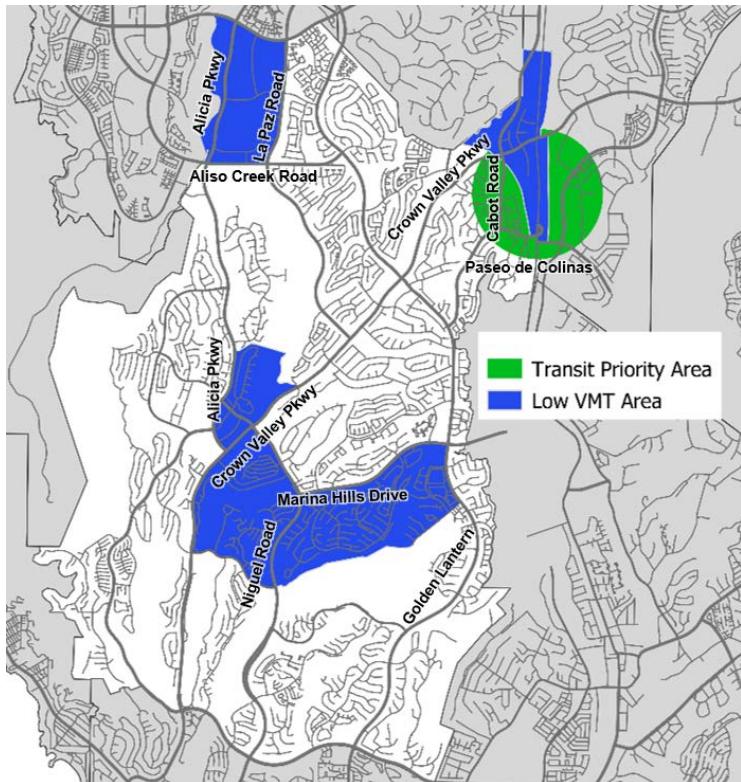


**City of Laguna Niguel Recommendation:** OCTA's traffic model OCTAM was used to calculate VMT by Traffic Analysis Zone (TAZ) geography. A map of TAZs where residential VMT per capita and employment VMT per employee were both below the Citywide average was prepared. They represent areas of the City currently located near a diversity of land uses or multimodal transportation where additional development would further decrease VMT per capita or employee. Three distinct areas of the City meet this criterion:

- The Gateway Specific Plan area around the Metrolink Station (TAZ 1479 and TAZ 1629).
- The northwest portion of the City bounded by Aliso Creek Road and La Paz Road, an employment center (TAZ 1624).
- The central portion of the City bounded by Alicia Parkway, Crown Valley Parkway, Club House Drive, Golden Lantern, Marina Hills Drive, Niguel Road, the central part of the City (TAZ 1648, TAZ 1652, TAZ 1655, and TAZ 1657).

Based on this review, it is reasonable for a project proposed in these areas to be presumed to be less than significant TAZs with blue shading in **Figure 1** represent low VMT/capita areas compared to the Citywide average, however, these areas would be subject to the screening criteria and VMT analysis presented in this document the same as projects located outside these areas.

Figure 1 – Low VMT Zones compared to City Average (Source OCTAM) and Transit Priority Area



### Transit Priority Areas

Transit Priority Areas (TPAs) are located within  $\frac{1}{2}$  mile of a major transit stop, and projects within them can be generally presumed to be less than significant. A "major transit stop" is *"a rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods"* as defined by Public Resources Code §21064.3.

Projects in TPAs are generally be presumed to have less than significant impacts, but that such presumption might be inappropriate if the proposed development:

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

SB 743 stated aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area shall not be considered significant impacts on the environment.

There is currently one TPA located within the City which is the area surrounding the Laguna Niguel/Mission Viejo Metrolink Station shown in green. Land use development projects in the TPA and consistent with the Laguna Niguel Gateway Specific Plan would likely be exempt from CEQA analysis.



**City of Laguna Niguel Recommendation:** The screening out of any projects that are located within the existing TPA in **Figure 2** below that meet the following criteria are proposed:

A residential or mixed-use project, or a project with a floor area ratio of at least 0.75 on commercially-zoned property, including any required subdivision or zoning approvals, is exempt from VMT analysis if the project satisfies the following criteria:

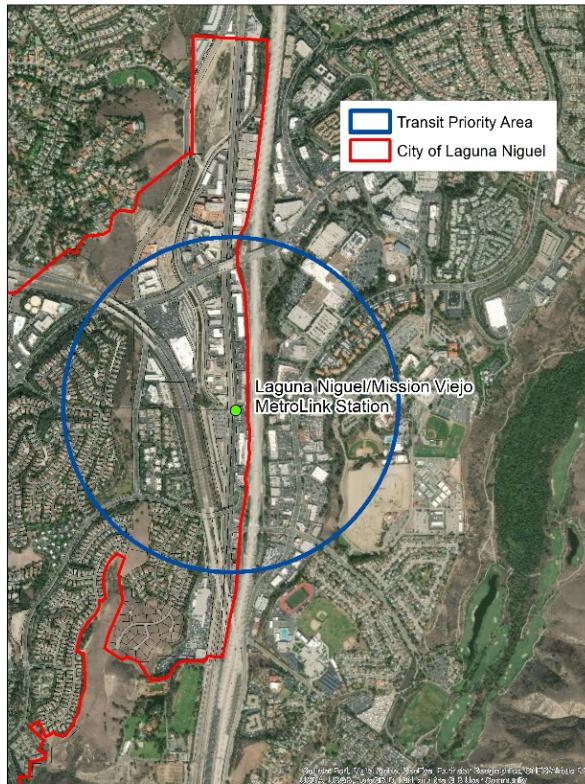
(A) It is located within a transit priority area as defined in Public Resources Code section 21099(a)(7);

(B) It is consistent with a Specific Plan for which an Environmental Impact Report was certified; and

(C) It is consistent with the general use designation, density, building intensity, and applicable policies specified for the project area in either a sustainable communities strategy or an alternative planning strategy for which the State Air Resources Board has accepted the determination that the sustainable communities strategy or the alternative planning strategy would achieve the applicable greenhouse gas emissions reduction targets.

To the extent additional areas within the City qualify as TPA's in the future, projects in such areas would also be screened out.

**Figure 2 - Existing TPAs in Laguna Niguel**



#### *Locally Serving Retail and other Locally Serving Land Uses*

The OPR Technical Advisory states that “new retail development typically redistributes shopping trips rather than creating new trips,” estimating the total change in VMT (i.e., the difference in total VMT in the area affected with and without the project) is the OPR’s recommended way to analyze a retail project’s transportation impacts. Analysis of total change in VMT can be a technically difficult, therefore OPR offers potential screening based on the local vs. regional service area for retail projects.

By adding retail opportunities into the urban fabric and thereby improving retail destination proximity, local-serving retail development tends to shorten trips and reduce VMT. Thus, lead agencies generally may presume such development creates a less-than-significant transportation impact. Regional-serving retail development, on the other hand, which can lead to substitution of longer trips for shorter ones, may tend to have a significant impact." Where such development decreases VMT, lead agencies should consider the impact to be less-than-significant. Lead agencies may refer to local definitions when available but should also consider any project "local serving retail" if it is less than 50,000 square feet.

Additionally other locally serving land uses under 50,000 square feet include daycare centers, schools, parks, community centers, and libraries intended for local use could be presumed to have a less-than-significant impact on transportation based on the discretion of the City.



**City of Laguna Niguel Recommendation:** All retail projects under 50,000 square feet be considered locally serving and be screened out from VMT analysis. Additionally, other locally serving land uses under 50,000 square feet could be presumed to have less than significant transportation impacts. These uses include, but are not limited to:

- Libraries,
- Civic Centers,
- Police/Fire Stations,
- Community Centers,
- Other locally serving civic uses,
- Public schools,
- Private schools with less than 120 students,<sup>1</sup>
- Community colleges with less than 400 students,<sup>1</sup>
- Daycare centers,
- Urgent care facilities,
- Walk-in medical clinics,
- Auto repair/tire shops,
- Gas service stations,
- Gyms/health clubs,
- Fitness studios,
- Locally serving hotels (non-destination hotels), and
- Locally serving assembly uses (places of worship, community organizations).

Note

<sup>1</sup> Use would typically generate less than 500 daily trips

A mixed-use project with locally serving components but is more than 50,000 square feet in total would not be screened from further analysis, however, the presumption of less than significance for locally serving project components could be described qualitatively.

For other potentially locally serving land uses the decision to screen out will be determined by City staff on a case-by-case basis, depending on the size and location of the proposed development.

### *Affordable Housing*

OPR guidance indicates that adding affordable housing to infill locations generally improves jobs-housing match, in turn shortening commutes and reducing VMT. Further, "... low-wage workers in particular would be more likely to choose a residential location close to their workplace, if one is available." OPR states that evidence supports a presumption of less than significant impact for a 100 percent affordable residential development (or the residential

component of a mixed-use development) in infill locations. If projects with all affordable units are exempt from VMT analysis, the presumption is individual affordable units are also exempt from VMT analysis. Therefore, if a project has a mix of affordable and market-rate units, the affordable units within the project would be exempt from VMT analysis and the remaining market-rate units would be subject to VMT analysis in accordance with the provisions of these Guidelines.



**City of Laguna Niguel Recommendation:** 100% affordable housing unit projects will be considered exempt from VMT analysis, consistent with the OPR Technical Advisory. For projects that are less than 100% affordable, each affordable unit shall be deemed to have no VMT generation. The remaining market-rate units shall be subject to the VMT analysis presented in these Guidelines.

### *Mixed-Use Development*

Mixed-use development on its own would not allow an applicant to presume less than significant transportation impacts. Each component of a mixed use development should be assessed separately with any internal capture or other reduction in VMT due to reduction in the number of or distance of vehicle trips can be included in analysis to demonstrate reduction in VMT as compared to comparable non-mixed-use projects.

## 2.3 Travel Demand Modeling Results

The primary tool for calculating VMT are travel demand models. These computerized models use socioeconomic (demographic and employment) data to generate trips that are loaded onto and distributed through a network. The model networks are developed to mimic the transportation system (number of lanes, speed limit, train stations, etc.). The models are calibrated based on transportation pattern data of traffic counts, origin-destination data, and various other data sources. The land use and transportation network of the City of Laguna Niguel are included in the SCAG region's Regional Transportation Plan/Sustainable Communities Strategy (SCS) travel demand model.

The travel demand model is a Federal requirement as part of the region's air quality conformity determination for the approval of Federal funding for transportation projects and the region's SCS. This is an important point since the model's primary purpose and its methodological structure is developed to adhere to its statutory requirements rather than for its use in studying transportation phenomena. Since transportation analysis, including VMT analysis, is secondary to the travel demand model's purpose the model the components and methodology for VMT analysis involves technical issues and some assumptions and "work-arounds" which need to be documented carefully if the City wants to apply consistent and legally defensible guidelines for conforming with SB 743.

Not all types of VMT are analyzed based on guidance from OPR and the Natural Resources Agency and the VMT is split into different land use and trip type components of home-based (residential) VMT and work-based (employment) VMT. These VMT will be indexed by the number of residents and the number of employees, respectively. Therefore, the two VMT metrics are in the two following categories:

- **Residential VMT per capita:** Home-Based Production VMT / Residential Population; and
- **Employment VMT per employee:** Home-Based Work Attraction VMT and Work-Based Production.

In order to develop the VMT component of the metrics, travel demand model outputs by trip purpose and productions and attractions must be considered. The delineation of productions and attractions include both ends of an origin and destination trip. For example, production VMT for home-based work trips represents the total VMT of all commute trips VMT for people living in the City to and from wherever they work. The attraction VMT represents the VMT of all people commuting to and from the City for work no matter where they live.

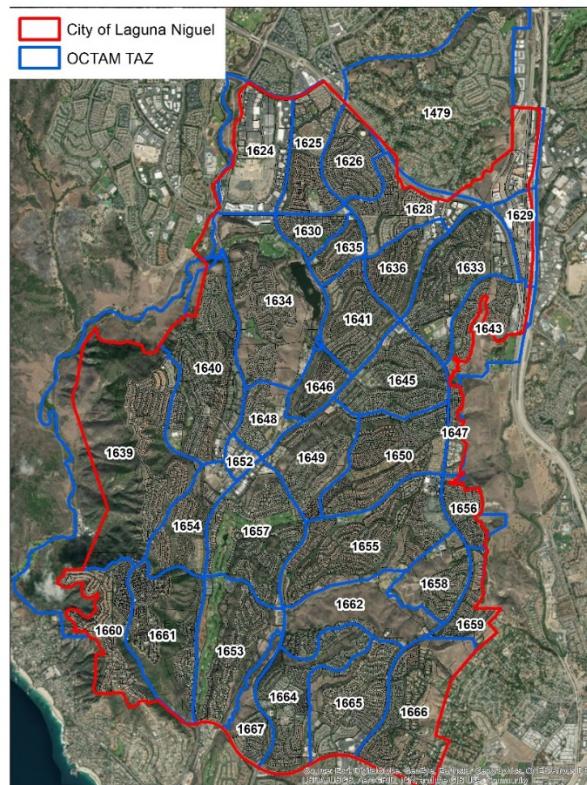
Cells highlighted in **yellow** in **Table 5** show the total VMT from OCTAM associated with home-based trips and highlighted in **green** represent work-based VMT.

**Table 5 - Trip Categories Used for VMT Analysis**

ID	Purpose	Production VMT	Attraction VMT
1	Home-based Work	1,104,575	456,168
2	Home-based School	13,446	10,372
3	Home-based University	439,091	152,313
4	Home-based Other	71,597	-
7	Home-based University	33,513	87,439
8	Work-Based Other	129,619	116,768
9	Other Based Other	1,104,575	456,168
<b>Total</b>		<b>1,791,841</b>	<b>823,060</b>
<b>Used in VMT Calculation</b>		<b>1,628,709</b>	<b>456,168</b>
<b>Population, Employment</b>		65,410	19,007
<b>VMT/Capita, VMT/Employment</b>		24.9	24.0

OCTAM was obtained from OCTA and run for the existing conditions (2018). A map of the OCTAM TAZs is shown in Figure 3.

**Figure 3 - City of Laguna Niguel TAZs in OCTAM**



Note: Zone 1479 only includes a small section of the City of Laguna Niguel north of Crown Valley with the majority of the TAZ consisting of Nellie Gail Ranch in Laguna Hills so this TAZ was excluded from the calculations.

**Table 6** contains the detailed VMT, population and employment values for the Existing conditions model run. The average VMT/capita for residents living in Laguna Niguel is almost 40% higher than for Orange County as a whole. This is reflective of the relatively housing rich higher income areas with limited public transit opportunities. While there are job opportunities within the City, many residents need to travel outside of the City to work. However, the average VMT per employee for jobs located within Laguna Niguel is very similar to the County average.

**Table 6 - Existing Conditions City of Laguna Niguel VMT Characteristics**

Geography	Home-Based VMT	Population	VMT/Capita	Work-Based VMT	Employees	VMT/Employee
<b>City Total</b>	<b>1,628,709</b>	<b>65,410</b>	24.9	<b>456,168</b>	<b>19,007</b>	24.0
County Total	56,915,305	3,179,626	17.9	41,214,543	1,710,147	24.1
Region Total	305,754,489	17,530,240	17.4	170,422,237	7,575,266	22.5

**Table 7** shows that using OCTAM data there is expected to be relatively little population growth within the City between today and 2045 (2%) and residential VMT and the City's future forecast VMT per capita does not really change. However, there is a slightly higher percentage forecast increase in employment (11%) and VMT per employee increases slightly but at a similar rate to the County average.

**Table 7 - Year 2045 Forecasts Conditions City of Laguna Niguel VMT Characteristics**

Geography	Home-Based VMT	Population	VMT/Capita	Work-Based VMT	Employees	VMT/Employee
<b>City Total</b>	<b>1,667,215</b>	<b>66,866</b>	<b>24.9</b>	<b>527,696</b>	<b>21,145</b>	<b>25.0</b>
County Total	63,201,581	3,534,620	17.9	49,240,559	1,980,433	24.9
Region Total	362,416,458	20,425,520	17.7	206,955,356	9,324,967	22.2

## 2.0 THRESHOLDS OF SIGNIFICANCE

A key step in the environmental review process is to determine whether a project may cause a significant effect on the environment. Thresholds of significance can inform not only the decision of whether to prepare an EIR but also the identification of effects to be analyzed in depth in the EIR. The requirement to make detailed findings on the feasibility of alternatives or mitigation measures to reduce or avoid the significant effects, and when found to be feasible, changes in the project to lessen the adverse environmental impacts.

Section 15064.7 defines a threshold as “an identifiable quantitative, qualitative or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant.” (CEQA Guidelines § 15064.7, subd. (a)

### *Geographic Areas for VMT Thresholds*

The OPR Technical Advisory also provides jurisdictions discretion over the level of geography that thresholds are determined by in comparison to a proposed project. It suggests residential thresholds could be developed at the City or Regional level while non-residential thresholds should be determined at the regional level due to the longer (and more regional) trip length of employment trips compared to other trip purposes. Verbiage in the OPR Technical Advisory page 16 states for very large regions (such as the SCAG region) the county might be a better proxy for regional travel: *“In cases where the region is substantially larger than the geography over which most workers would be expected to live, it might be appropriate to refer to a smaller geography, such as the county, that includes the area over which nearly all workers would be expected to live”*. Potential geographies for significance thresholds in the City of Laguna Niguel include:

- City of Laguna Niguel
- Orange County
- SCAG Region



**City of Laguna Niguel Recommendation** Based on the outcomes of the VMT analysis in **Tables 5 and 6** and consistent with practice in several other communities, it is recommended the City base its CEQA transportation significance on a comparison to the relevant City average for both residential and non-residential land uses.

Even though employment trips are more regional in nature, the unique trip patterns of the City make it difficult to compare to the City or regional average directly. Many of the factors affecting both home-based and work-based VMT are outside of the City and therefore outside of the City's ability to mitigate. By using the City's geography as a point of comparison, focused mitigation for projects with high VMT can focus on improvements within the City's jurisdiction.

### *How to Determine Significance Thresholds*

Section 15064 of the CEQA Guidelines provides general criteria to guide agencies in determining the significance of environmental effects of their projects as required by section 21083 of the Public Resources Code. The Natural Resources Agency updated CEQA Guidelines Section 15064 to expressly clarify that agencies may rely on standards adopted for environmental protection as thresholds of significance. An agency that relies on a threshold of significance should explain how application of the threshold indicates a less than significant effect.

The OPR Technical Advisory includes recommendations for the types of projects and thresholds of significance to apply to those projects. OPR determined that 15 percent reductions in VMT are achievable at the project level in a variety of place types and consistent with SB 743's objective to assist the State achieve its climate goals. This is based on the cumulative effect of location of land use development, neighborhood and site enhancement, parking

policies and pricing, transit system improvements and commute reduction.<sup>2</sup>

Despite the OPR recommendations for significance thresholds, individual jurisdictions are free to pursue their own thresholds provided that substantial evidence supporting these thresholds is provided. Below are some examples of thresholds of percent VMT index as compared to baseline:

- Baseline - City of Laguna Hills, City of Aliso Viejo<sup>3</sup>, City of Corona, City of Pasadena, City of Glendora
- 4 percent below Baseline - County of San Bernardino
- 15 percent below Baseline - City of Santa Ana, City of Beverley Hills, City of Irvine, City of Los Angeles, City of San Jose

Many of the cities adopting the OPR-recommended 15 percent threshold are places where the majority of the city falls within transit priority areas. With most areas of these cities screened out, few projects in these cities would require CEQA transportation analysis making the 15 percent below baseline threshold a rarely tested event. Achieving a 15 percent below baseline VMT value for a new development outside a TPA would be unlikely since the proximity to high-quality multimodal transportation systems are a major factor in lowering VMT.

Since the VMT per capita and per employee metrics recommended by the State are relative metric, setting a specific threshold must be done so within the local land use and transportation network context of the lead agency. In some communities the difference between a threshold of 15 percent below baseline and equal to baseline would not substantially change the parts of the City above or below the threshold while other Cities may see dramatic differences. Cities with highly different areas and ranges of transportation accessibility would not see much of a difference within the range of potential thresholds, while those with relatively consistent VMT characteristics (such as the City of Laguna Niguel) may have few or no zones that have VMT 15 percent below the City average.

For the City of Laguna Niguel, 42 percent of the residents and 55 percent of employees are located in areas below the average VMT per resident and per employee respectively. Whereas only 15 percent of residents and zero percent of employees are located in areas 15 percent below the baseline values respectively.

Since the State's intent is to encourage development that reduces VMT, a threshold value from baseline to 15 percent below baseline would achieve this intent. In order for the City to make a policy judgement about how to distinguish significant impacts from less-than significant impacts, it looked at two technical factors:

- What is achievable through future development and land use policies?
  - Comparing the Existing Travel Demand Model Scenario to the Future Model Scenario – this indicates how cumulative land use development are forecasted to change VMT.
- What is achievable through transportation investment?
  - Assessing the feasibility and effectiveness of new transit/transportation projects within the City
    - TDM and multimodal infrastructure improvements that serve existing development implemented as off-site mitigation from future projects.
    - On-site and off-site TDM and multimodal infrastructure improvements to serve future projects in the City.
    - Regional transit centers.

This technical review is described further in the following Sections 4 and 5. Based on the analysis in **Table 6**, forecasted City land use and transportation network development could reduce VMT per capita of new residential projects to baseline levels a gross scale, while new employment VMT per employee could not be reduced to baseline

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<sup>2</sup> CAPCOA (2010) Quantifying Greenhouse Gas Mitigation Measures, p. 55, available at <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>.

<sup>3</sup> The City of Aliso Viejo's baseline is General Plan Buildout.

levels. While this analysis was conducted for all forecasted growth in the City rather than individual projects, it indicated that new residential development in areas with current low residential VMT per capita would likely be less than significant whereas those in areas of higher VMT would be significant and require mitigation. The analysis indicates development with employees would need to be focused on local residents or near transit services in order to achieve less than significance.



**City of Laguna Niguel Recommendation:** A threshold of baseline or below is proposed. This threshold would support development in the City's transit priority area and areas of lower average VMT to support a reduction in GHG emissions. Furthermore, the simplicity of interpreting and implementing the threshold allows for clearer delineation of significant versus less than significant impacts.

### *Cumulative CEQA Analysis*

A project's cumulative impacts are based on an assessment of whether the "incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." (Pub. Resources Code, § 21083, subd. (b)(2); see CEQA Guidelines, § 15064, subd. (h)(1).) Therefore a cumulative analysis is based on the inclusion of future foreseeable projects, as represented in the OCTA future year model scenario.

The OPR Technical advisory states when using an absolute VMT metric, i.e., total VMT (as recommended below for retail and transportation projects), analyzing the combined impacts for a cumulative impacts analysis may be appropriate. However, metrics such as VMT per capita or VMT per employee, i.e., metrics framed in terms of efficiency (as recommended below for use on residential and office projects), cannot be summed because they employ a denominator. A project that falls below an efficiency-based threshold that is aligned with long-term environmental goals and relevant plans would have no cumulative impact distinct from the project impact. Accordingly, a finding of a less-than-significant project impact would imply a less than significant cumulative impact, and vice versa. This is similar to the analysis typically conducted for greenhouse gas emissions, air quality impacts, and impacts that utilize plan compliance as a threshold of significance. (See Center for Biological Diversity v. Department of Fish & Wildlife (2015) 62 Cal.4th 204, 219, 223; CEQA Guidelines, § 15064, subd. (h)(3).)

## 3.0 TRANSPORTATION PROJECTS

The methodology for testing transportation projects is different from a residential or office project in that it looks at the total VMT, rather than an efficiency metric such as VMT per capita. For transportation projects that significantly increase roadway capacity, induced travel also needs to be assessed. However, the analysis would only be performed for a subset of capacity increasing projects. According to the OPR Technical Advisory, the following "*projects that would not likely lead to a substantial or measurable increase in vehicle travel, and therefore generally should not require an induced travel analysis, include:*"

- Rehabilitation, maintenance, replacement, safety, and repair projects designed to improve the condition of existing transportation assets.
- Installation, removal, or reconfiguration of traffic lanes that are not for through traffic, such as left, right, and U-turn pockets, two-way left turn lanes, or emergency breakdown lanes that are not utilized as through lanes.
- Addition of roadway capacity on local or collector streets provided the project also substantially improves conditions for pedestrians, cyclists, and, if applicable, transit.
- Addition of an auxiliary lane of less than one mile in length designed to improve roadway safety.
- Addition of a new lane that is permanently restricted to use only by transit vehicles.
- Reduction in number of through lanes.
- Grade separation to separate vehicles from rail, transit, pedestrians or bicycles, or to replace a lane in order to separate preferential vehicles (e.g., HOV, HOT, or trucks) from general vehicles.

- Installation, removal, or reconfiguration of traffic control devices, including Transit Signal Priority (TSP) features
- Installation of traffic metering systems, detection systems, cameras, changeable message signs and other electronics designed to optimize vehicle, bicycle, or pedestrian flow.
- Timing of signals to optimize vehicle, bicycle, or pedestrian flow.
- Installation of roundabouts or traffic circles.
- Installation or reconfiguration of traffic calming devices.
- Initiation of new transit service.
- Conversion of streets from one-way to two-way operation with no net increase in number of traffic lanes
- Removal or relocation of off-street or on-street parking spaces.
- Adoption or modification of on-street parking or loading restrictions (including meters, time limits, accessible spaces, and preferential/reserved parking permit programs).
- Addition of new or enhanced bike or pedestrian facilities on existing streets/highways or within existing public rights-of-way.
- Addition of Class I bike paths, trails, multi-use paths, or other off-road facilities that serve non-motorized travel.
- Installation of publicly available alternative fuel/charging infrastructure.

Transportation projects that consist of adding additional through lanes, turn lanes, or other capacity on existing or new roadways have a less than significant impact, provided the improvement is less than one (1) mile in length<sup>4</sup>, consistent with the established General Plan Circulation Element Roadway Classifications and the improvements can accommodate multi-modal transportation, such as pedestrian, bicycle and transit facilities. Otherwise, these project types would likely lead to a measurable and substantial increase in vehicle travel.

For transportation projects not examined above, a significant impact would occur if the project results in an increase to the total baseline VMT in the City (not indexed to population or employment).

## 4.0 POTENTIAL TRIP REDUCTION AND MITIGATION MEASURES

CEQA requires that an Environmental Impact Report identify feasible alternatives and mitigation measures that could avoid or substantially reduce a project's significant environmental impacts (Pub. Resources Code, § 21002.1, subd. (a).)

OPR lists potential mitigation measures many of which require efforts beyond individual projects because "...VMT is largely a regional impact". Regional VMT-reduction programs or an in-lieu fee program based on a programmatic EIR are listed as options. Reduced VMT can be achieved through changes in land use and the built environment which can reduce vehicle trips or trip length or through investment in non-vehicle infrastructure and services.

OPR's discussion of project alternatives focus on alternative locations or land uses on a site—which would not be an alternative for an individual project applicant. Changes to land use or the built environment can only be handled at the General Plan, community plan or specific plan level. Mitigation options available to individual project are

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<sup>4</sup> In the SCAG region, federal regulations stipulate that no federal funds be programmed for any project that significantly increases Single Occupancy Vehicle (SOV) capacity unless the project is addressed as part of a congestion management process. The FTIP, as the programming document for all federal transportation funds, must be consistent with the regulations. CMP is required for any SOV capacity increasing project that adds at a minimum one (1) mile or more in length per agreement between SCAG and FHWA.

Source: SCAG Federal Transportation Improvement Program 2019 Guidelines

investment in non-vehicle infrastructure and services commonly referred to as transportation demand management (TDM):

### On-Site Infrastructure

**Bicycle Infrastructure:** The bicycle infrastructure category includes implementing or improving on-street bicycle facilities, bike parking, and showers/changing rooms. These measures can support safe and comfortable bicycle travel through improvements in infrastructure, parking, and supportive facilities.

**Parking Measures:** The parking measures category includes reducing parking, unbundling parking, and pricing parking. Unbundling parking can allow for a separation of parking cost from property cost, allowing those who wish to purchase parking spaces that option. Similarly, parking cash out requires employers to offer employees a “cash-out” option for the monthly value of the free or subsidized parking space.

### On-Site Travel Demand Management

**Commute Vehicle Trip Reductions:** The commute trip reduction category includes required commute trip reduction through carpools, vanpools or rideshare. Employer-sponsored vanpools or shuttles can connect employees to a project site by providing new opportunities for access, through more direct routes at lower costs. Ride share programs increase vehicle occupancy by providing ride-matching services. These types of strategies replace single-occupancy vehicle trips with multiple riders in one vehicle. Other options include providing telework options, guaranteed ride home for transit commuters, providing on-site amenities at places of work, such as priority parking for carpools and vanpools, secure bike parking, showers and locker rooms and a guaranteed ride home service to users of non-auto modes. Other strategies such as transit pass subsidies and incentives by employers or could be provided if transit service is available.

**Shared Mobility:** The shared mobility category includes ride-matching, car share, bike share, and school carpool programs. Car share programs allow people to have on-demand access to a vehicle, as needed, which can serve as a supportive strategy that enhances other TDM strategies, such as parking unbundling. Bike share programs allow people to have on-demand access to a bicycle, as needed, to improve access and connectivity. School carpool programs encourage ride-sharing for students.

### Off-Site Infrastructure

**Neighborhood Enhancements:** The neighborhood enhancements category includes traffic calming and pedestrian network improvements. Implementation of traffic calming measures throughout and around a project site can encourage people to walk, bike, or take transit through better connections and elimination of barriers as can the provision of a neighborhood electric vehicle network.

**Bicycle Lanes/Trails:** With the increase in popularity and availability of electric bicycles, bicycle travel is becoming more popular in cities like Laguna Niguel even with its hilly terrain. Linking bicycle lanes, trails, and facilities to transit, office, and shopping can provide a successful means of reducing VMT.

### Off-Site Multimodal Infrastructure

Many off-site measures may not be appropriate for all parts of the City, which is currently relatively underserved by transit and contains several relatively low land use density areas. An individual developer or even the City has limited influence on transit agencies to provide mitigation measures such as increased transit service for a site-specific development.

The implementation of feasible and effective mitigations will require a proven nexus to proposed project. Under the current CEQA transportation analysis, the nexus was between site trips and their impact to the operations of the transportation system. This was concentrated nearer to the project, so the nexus was clear both in where the

significant impacts occurred and enacting mitigation measures that directly mitigated the impact in terms of the nexus to the project's activity and the location. Under SB 743, the significant impact would be more intense the farther away a vehicle traveled from the project site.

Several industry efforts have been made to quantify the effectiveness of TDM measures for example in the *California Air Pollution Control Officers Association (CAPCOA) Quantifying Greenhouse Gas Mitigation Measures* report (2010) and has been used in Climate Action Plans to determine the ability of mitigation measures to reduce VMT and GHG emissions. This document provides a very broad range of percentage effectiveness the top end of which may not be attainable in many lower density cities such as Laguna Niguel. A VMT spreadsheet calculator has been prepared that includes several example mitigation measures. These example mitigation measures and assumed VMT reduction percentage are shown in **Table 8**. Subject to City approval, project applicants would be able to provide alternative or supplementary mitigation measures in order to meet VMT thresholds or provide evidence to justify a higher percentage reduction.

**Table 8 – Example VMT reduction Measures and Percentage Effectiveness**

	<b>Strategy</b>	<b>Purpose</b>	<b>City Calculator</b>	<b>CAPCOA where higher</b>
1	On-Site Pedestrian Network	Improve pedestrian network	1% VMT Reduction	0-2% VMT Reduction
2	On-Site Bicycle Network	Provide exclusive bicycle facilities	1% VMT Reduction	0.075% increase in bicycle commuting with each mile of bikeway per 100,000 residents
3	On-Site bikeshare	Implement bikeshare program	0.8 bicycle trips per bikeshare bike	0.03% reduction in VMT/ 1/3 vehicle trip reduced per bicycle
4	End of Trip Facilities	Providing convenience	2% VMT Reduction	2 - 5% reduction in commute vehicle trips
5	Unbundled Parking Costs	Separates parking cost	2.5% reduction per unbundled residential unit	2.6-13% reduction in vehicle trips
6	Electrical Vehicle Charging Station	Install electrical charging equipment	2 trip per day reduction per neighborhood electric vehicle (NEV) ownership	Substitution of non-ZEV trips 1:1
7	Provide Parking Cash-Out Program	Incentives for no car	1% VMT Reduction per worksite	0.6-7.7% commute VMT reduction
8	Provide Bicycle Parking	Encourage bicycling	1 trip per 2.5 spaces	Part of overall improvement of design with 3-21.3% reduction
9	Provide Ride-Sharing Program	Increasing vehicle occupancy	1% commute trip reduction	1-15% commute trip reduction
10	Car Share Program	Reduce vehicle ownership	0.4% reduction	0.4-0.7% VMT reduction
11	Sponsor Vanpool/Shuttle	Provide means to work	2% reduction in commute trips	0.3-13.4% commute VMT reduction
12	Implement Transportation Demand Management Program – Required Implementation/Monitoring	Reduce drive-alone travel mode share and encourage alternative modes of travel	2% Residential/ Employee Trip Reduction	4.2% – 21.0% commute VMT reduction
13	Implement Subsidized or Discounted Transit Program	Encourage transit use by providing subsidy	0.3% Employee Trip Reduction	0.3-20% commute VMT reduction
14	Telecommuting and Alternative Work Schedules	Encouraging telecommuting and alternative work schedules reduces the number of commute trips	5.5% Employee Trip Reduction for Program	0.07-5.5% commute VMT reduction

	<b>Strategy</b>	<b>Purpose</b>	<b>City Calculator</b>	<b>CAPCOA where higher</b>
15	Traffic Calming Measures	Reduce vehicle speeds	0.25% reduction per location	0.25 – 1.00% VMT reduction per location
16	Dedicate land for bike trails	Create off-street paths (per mile)	1% reduction per mile	Part of overall improvement of design with 3-21.3% reduction
17	Fair Share contribution to First/Last Mile project or other infrastructure	To support non-vehicle trips	Up to 2% Trip Reduction	Supportive of overall 0.1-8.2 VMT reduction for transit network improvement
18	Provide Bicycle Parking near Transit	Mode shift to biking and transit	0.1% per space up to six	Supportive of overall 0.1-8.2 VMT reduction for transit network improvement

In March 2020, SCAG released a request for proposal to initiate a study to look at the feasibility of a region wide mitigation program and or mitigation bank, however as of October 2020 no programs have been implemented and the only mitigation available will be through the City. The City will continue to monitor the progress of these initiatives.

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## APPENDIX B

### Traffic Assessment Screening Form / VMT Calculator

CEQA Transportation Analysis Screening Tool for Development Projects

May 27, 2020

This tool estimates the potential VMT of a land use project, where the City of Laguna Niguel is the CEQA lead agency

The Output of the tool indicates if a project is likely to be "Presumed Less than Significant" or "Potentially Significant" based on VMT characteristics of land uses near the project site. It is appropriate for CEQA Checklist Screening but is not a substitute for individualized Transportation Analysis for a CEQA document

The user inputs project information in Green Cells  
Calculated outputs are in Blue Cells

Legend  
User Input  
Calculated Value

### 1 Project Information

Insert the Project Applicant Name, a Title (if needed) and Description

Applicant Name	2000s
Project Name	2000s
Project Description	2000s

The Address Number followed by the Simplified Street Name (no direction or suffix), if there is no Address, the Assessors Number may be used in the Output Sheet

Address	Number	Street (no street suffix, e.g. Ave., Blvd.)
Case Number		
Current GP Land Use	Current Zoning	Proposed GP Land Use
Proposed GP Land Use	Proposed Zoning	

### 2 Project Description

The size of the Existing Development and the Size of the Proposed Development are Input

Type	Unit	Existing	Project	Change
Employment - Office Building	2000s Sq Feet			
Employment - Hospital	2000s Sq Feet			
Employment - Medical/Dental Office	2000s Sq Feet		75000	75000
Employment - Movie Theater	2000s Sq Feet			
Hotel	Rooms			
Industrial - Heavy	2000s Sq Feet			
Industrial - Light	2000s Sq Feet			
Industrial - Warehouse	2000s Sq Feet			
Retail - Store	2000s Sq Feet			
Retail - Restaurant	2000s Sq Feet			
Residential - Apartment	Units		50	50
Residential - Assisted Living	Beds			
Residential - Single Family	Units			
Residential - Townhouse	Units			
Number of Affordable Housing Units	Units			

#### List Project Elements Which May Effect Project VMT

Project Elements	Unit	Value	Number
Pedestrian parking for carpet vehicles	% of emp. spaces		
Bicycle parking and shower facilities	Number of spaces		
Shower facilities	Yes/No		
Information on transportation alternatives	Yes/No		
Vanpool vehicle accessibility	Min # per 200 spaces		
Subsidy for transit passes	Yes/No		
Subsidy for carpool/vanpool	Yes/No		
Flex time / Alt work weeks	Yes/No		
Telecommuting	Yes/No		
Electric Vehicle Chargers	Number of chargers		

#### If the project would be community-serving

Is this project a:
Library
School
Park
Community Center
Other Comm. Serving

### 3 CEQA Checklist Screening

- Small Project Size (fewer than 500 trips per day)
- Within a Low VMT Area
- Within a Transit Priority Area
- Is Neighborhood-Serving Retail
- Community Serving

Project

Screened

Calculated value from trip generation  
Calculated from project location  
Calculated from project location  
Retail portion only  
Neighborhood serving retail  
Other types of community serving

Screened to be Presumed as Less Than Significant?

A Yes states if the project is screened from further analysis

If "No" the following Potential Mitigation Measures could be implemented to reduce to less than significant

### 4 Mitigation Measures

If the Project is above the City threshold, then mitigation options to reduce the project VMT are options. A project that could not be mitigated by these mitigation options could work with the City to identify additional mitigation or whether a Statement of Overriding Considerations is an option.

Strategy	Purpose	Implementation	Number
On-Site Pedestrian Network	Improve pedestrian network	Yes	
On-Site Bicycle Network	Provide exclusive bicycle facilities	Yes	
On-Site BikeShare	Implement bike/share program	Yes	
End of Trip Facilities	Providing convenience	Yes	
Unbundled Parking Costs	Separates parking cost from property costs	Yes	
Electrical Vehicle Charging Station	Install electrical charging equipment	Yes	
Provide Parking Cash-Out Program	Incentives for alternative transportation	Yes	
Provide Bike/Ped Parkings	Encourage bicycling	Yes	
Provide Ride-Sharing Program	Increasing vehicle occupancy	Yes	
Car-Share Program	Reduce vehicle ownership	Yes	
Shared Vehicle Ownership			
Implement Transportation Demand Management Program - Required Implementation/Monitoring	Reduce drive-alone travel mode share and encourage alternative modes of travel	Yes	
Implement Subsidized or Discounted Transit Program	Encourage transit use by providing subsidy	Yes	
Telecommuting and Alternative Work Schedules	Encouraging telecommuting and alternative work schedules reduces the number of commute trips	Yes	
Traffic Calming Measures	Reduce vehicle speeds	Yes	
Dedicate land for bike trails	Create off-street paths (per mile)	Yes	
Improve traffic flow	Manage traffic flow	Yes	
Fair Share contribution to First/last Mile project or other infrastructure	To support non-vehicle trips	Yes	
Provide Bicycle Parking near Transit	Mode shift to biking and transit	Yes	

#### Resulting VMT Estimates

Base Project VMT	Threshold VMT	VMT After MM	Above/Below
Residential			
Employment			

Presumed Less Than Significant CEQA Transportation Impact After Mitigation

Yes

## APPENDIX C

### VMT Reduction Measures and Effectiveness from CAPCOA

## Example VMT Reduction Mitigation Actions and Recommended Application

The following VMT Reduction Mitigation Actions are intended to be applied at the project level where VMT based on the project's type, location, and intensity has been developed.

These actions would be applied to mitigate CEQA transportation impacts.

The literature review of potential actions was reviewed for effectiveness and application in the City

A simplified VMT effectiveness level was recommended for ease of practical application at the project level.

Type	Strategy	VMT Reduction Potential	Elements	Literature Range of Effectiveness	Target Population	Recommended VMT Reduction Value
On-Site Infrastructure	Provide Pedestrian Network	Mode Shift to walking	<ul style="list-style-type: none"> <li>Build a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site</li> <li>Minimize barriers to pedestrian access and interconnectivity</li> <li>Eliminate physical barriers such as walls, landscaping, and slopes that impede pedestrian circulation</li> </ul>	0 - 2% VMT reduction	All Trips	1% on-site, 2% off-site improvements
	Incorporate Bike Lane Street Design (on-site)	Mode shift to biking	<ul style="list-style-type: none"> <li>Incorporate bicycle lanes, routes, and shared-use paths into street systems, new subdivisions, and large developments</li> <li>On-street bike accommodations provide a continuous network of routes, facilitated with markings and signage</li> <li>Increase access to transit hubs, thereby expanding "catchment area" of transit stops and increasing ridership</li> <li>Bicycle access can also reduce parking pressure on heavily-used and/or heavily-subsidized feeder bus lines and auto-oriented park-and-ride facilities</li> </ul>	1% increase in share of workers commuting by bicycle (for each additional mile of bike lanes per square mile)	Commute Trips	1% per mile of Class II or higher facility
	Provide Bike Parking in Non-Residential Projects	Mode shift to biking	<ul style="list-style-type: none"> <li>Build short-term and long-term bicycle parking facilities to meet peak season maximum demand</li> </ul>	0.625% Shift to Bicycles	Commute Trips	Reduce vehicle trips by 1 per 2.5 bicycle spaces provided
	Provide End of Trip Facilities (such as on-site food service, gym, shower)	Mode shift to biking	<ul style="list-style-type: none"> <li>Provide "end-of-trip" facilities for bicycle riders including showers, secure bicycle lockers, and changing spaces.</li> </ul>	2 - 5% reduction in commute vehicle trips	Commute Trips	2% for meeting City Requirements
	Electrical Vehicle Charging Station	Increase ZEV VMT	<ul style="list-style-type: none"> <li>Build electrical charging infrastructure</li> <li>Build solar energy generation and battery storage</li> </ul>	Substitute fuel trips 1:1 based on charging capability	All Trips	1:1 substitution of non-ZEV trips
On-Site TDM	Provide Bike Parking in Multi-Unit Residential Projects	Mode shift to biking	<ul style="list-style-type: none"> <li>Build long-term bicycle parking at apartment complexes or condominiums without garages</li> </ul>	0.625% Shift to Bicycles	Commute Trips	Reduce vehicle trips by 1 per 2.5 bicycle spaces provided
	Implement Transportation Demand Management Program – Required Implementation/Monitoring	Mode shift from SOV	<ul style="list-style-type: none"> <li>Established performance standards (e.g. trip reduction requirements)</li> <li>Required implementation</li> <li>Regular monitoring and reporting</li> </ul>	4.2 – 21.0% commute VMT reduction	Commute Trips	4% for TMO participation
	Provide Ride-Sharing Programs	Increase carpooling	<ul style="list-style-type: none"> <li>Create a ride-sharing program as well as a permanent transportation management association membership and funding requirement</li> </ul>	1 – 15% commute VMT reduction	Commute Trips	1% for meeting City requirements
	Implement Subsidized or Discounted Transit Program	Mode shift to transit	<ul style="list-style-type: none"> <li>Provide subsidized/discounted daily or monthly public transit passes</li> <li>Provide free transfers between all shuttles and transit to participants</li> <li>Potential use of parking revenue to offset the cost of such a project</li> </ul>	0.3 – 20.0% commute VMT reduction	Commute Trips	0.3% for transit subsidy program

Type	Strategy	VMT Reduction Potential	Elements	Literature Range of Effectiveness	Target Population	Recommended VMT Reduction Value
On-Site TDM (cont.)	Telecommuting and Alternative Work Schedules	Trip elimination+C6	<ul style="list-style-type: none"> <li>Alternative work schedules could take the form of staggered starting times, flexible schedules, or compressed work weeks.</li> </ul>	0.07 – 5.50% commute VMT reduction	Commute Trips	up to 5.5% for approved program
	Implement Preferential Rideshare Parking Program	Increase carpooling	<ul style="list-style-type: none"> <li>Provide preferential parking in convenient locations (such as near public transportation or building front doors) in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share or use alternatively fueled vehicles</li> </ul>	Not quantified	Commute Trips	1% for approved program
	Implement Car-Sharing Program	Decrease auto trips	<ul style="list-style-type: none"> <li>Implement a car-sharing program with on-demand access to a shared fleet of vehicles on an as-needed basis.</li> <li>Car-sharing programs can be grouped into three general categories: residential- or citywide-based, employer-based, and transit station-based.</li> <li>Transit station-based programs focus on providing the “last-mile” solution and link transit with commuters’ final destinations.</li> <li>Residential-based programs work to substitute entire household based trips. Employer-based programs provide a means for business/day trips for alternative mode commuters and provide a guaranteed ride home option.</li> </ul>	0.4 – 0.7% VMT reduction, 37% reduction in car-share member VMT	All Trips	0.4%
	Provide Employer-Sponsored Vanpool/Shuttle	Increase carpooling	<ul style="list-style-type: none"> <li>A vanpool will usually service employees commute to work while a shuttle will service nearby transit stations and surrounding commercial centers.</li> <li>Purchasing or leasing vans for employee use, and often subsidizing the cost of at least program administration</li> <li>Scheduling within the employers purview, and rider charges are normally set on the basis of vehicle and operating cost.</li> </ul>	0.3 – 13.4% commute VMT	Commute Trips	2% for approved program
	Implement Bike-Sharing Program	Mode shift to biking	<ul style="list-style-type: none"> <li>Establish a bike-share station, kiosk or rack especially near commercial and transit hubs.</li> </ul>	1/3 vehicle trip reduced per day or 0.8 rides per day per bike	All Trips	0.8 trips reduced per day per bicycle
	Implement Commute Trip Reduction Marketing	Encourage non-vehicle travel	<p>Marketing strategies can include:</p> <ul style="list-style-type: none"> <li>New employee orientation of trip reduction and alternative mode options</li> <li>Event promotions</li> <li>Publications</li> </ul>	0.8 – 4.0% commute VMT	All Trips	Required component of TDM Program
	Traffic Calming Measures	Enhance Safety, mode shift to walking and biking	<ul style="list-style-type: none"> <li>Project design includes pedestrian/bicycle safety and traffic calming measures in excess of jurisdiction requirements.</li> <li>Roadways will be designed to reduce motor vehicle speeds and encourage pedestrian and bicycle trips with traffic calming features.</li> <li>Traffic calming features may include: marked crosswalks, count-down signal timers, curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers, and others.</li> </ul>	0.25 – 1.00% VMT reduction based on % of streets with improvements 25% to 100%	All Trips	0.25% per block/intersection of traffic calming Based on City Approval
Off-Site Infrastructure	Dedicated Land for Bike Trails	Mode shift to biking	<ul style="list-style-type: none"> <li>Provide for, contribute to, or dedicate land for the provision of off-site bicycle trails linking the project to designated bicycle commuting routes in accordance with an adopted citywide or countywide bikeway plan</li> </ul>		Commute Trips	1% per mile of Class II or higher facility

Type	Strategy	VMT Reduction Potential		Elements	Literature Range of Effectiveness	Target Population	Recommended VMT Reduction Value
Off-Site Infrastructure (cont.)	Improve Traffic Flow			<ul style="list-style-type: none"> <li>Signalization improvements to reduce delay</li> <li>Incident management to increase response time to breakdowns and collisions</li> <li>Intelligent Transportation Systems (ITS) to provide real-time information regarding road conditions and direction</li> <li>Speed management to reduce high free-flow speeds</li> </ul>	0.02%, however may not counterbalance induced modal demand	All Trips	None
	Implement Transit Access Improvements	Mode shift to transit	<ul style="list-style-type: none"> <li>Build sidewalk/ crosswalk safety enhancements</li> <li>Create new path to transit stop</li> </ul>		0.1 – 8.2% VMT reduction	All Trips	None
	Require Project Contributions to Transportation Infrastructure Improvement Projects	Varies	<ul style="list-style-type: none"> <li>The local transportation agency should be consulted for specific needs</li> <li>Larger projects will require a proportionate share contribution to the development and/or continuation of a regional transit system</li> <li>Contributions may consist of dedicated right-of-way, capital improvements, easements, etc.</li> </ul>		0.02%, however may not counterbalance induced modal demand	All Trips	Quantify VMT reduction from Planned Infrastructure, 1:1 credit fair share contribution
Off-Site Multimodal Improvements	Provide Bike Parking Near Transit	Mode shift to biking and transit	<ul style="list-style-type: none"> <li>Provide short-term and long-term bicycle parking near rail stations, transit stops, and freeway access points.</li> </ul>		0.625% Shift to Bicycles	All Trips	Coordinate with Transit Agencies

## APPENDIX D

### Level of Service Definitions

## LEVEL OF SERVICE DEFINITIONS

For intersections, Level of Service is described in terms of Intersection Capacity Utilization (ICU).

LEVEL OF SERVICE	OPERATING CONDITION	ICU VALUE
A	Free flowing, virtually no delay. Minimal traffic	<0.60
B	Free flow and choice of lanes. Delays are minimal. All cars clear intersection easily.	0.61-0.70
C	State flow. Queue at signal starting to get relatively long. Delays starting to become a factor but still within "acceptable" limits.	0.71-0.80
D	Approaching unstable flow. Queues at intersection are quite long but most cars clear intersection on their green signal. Occasionally, several vehicles must wait for a second green signal. Congestion is moderate	0.81-0.90
E	Severe congestion and delay. Most of the available capacity is used. Many cars must wait through a complete signal cycle to clear the intersection.	0.91-1.00
F	Excessive delay and congestion. Most cars must wait through more than one on one signal cycle. Queues are very long and drivers are obviously irritated.	>1.00

For areas of roadways situated between intersections, LOS is described via a "mid-block roadway link" analysis. Highway capacity manual-Chapter 15 is used to find the LOS provided under section "Mitigation Measures" and duplicated here for quick reference.