
Addendum

to the certified

Final Environmental Impact Report
[State Clearinghouse No. 2016081034]

for

**Los Angeles International Airport (LAX)
Terminals 2 and 3 Modernization Project**

City of Los Angeles
Los Angeles City Clerk Case #EIR-17-002-AD

February 2018

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1. REFINEMENTS TO THE APPROVED PROJECT - DESCRIPTION AND BACKGROUND

On August 25, 2017, the City of Los Angeles certified the Final Environmental Impact Report (Final EIR) for the LAX Terminals 2 and 3 Modernization Project (SCH #2016081034) and approved the project (the 'approved project'). Since its approval, revisions to architectural plans and to the scope of the development program for Terminals 2 and 3 have been discussed between LAWA and Delta Air Lines (the current tenant of Terminals 2 and 3), which constitute refinements to the approved project as analyzed in the EIR. Based on advanced planning and design, the proposed refinements to the project description are primarily limited to a minor increase in the amount of demolition based on the proposed demolition of the entire Terminal 3 satellite¹ (rather than just the southern Terminal 3 satellite appendages) and less intensive construction activity for the overall program. This less intensive construction activity is based on the refined development program that requires a reduced amount of square footage than was evaluated in the EIR (see Table 1 in Appendix A of this Addendum). The effect of the reduced construction activity offsets increased activity associated with the demolition.

As with the approved project analyzed in the EIR, the proposed refinements to the project would occur within the same project site boundary. The EIR assumed construction could commence starting in approximately the fourth quarter 2017 and was projected to end in late 2023. Based on the proposed refinements to the project, construction is expected to commence in late second quarter 2018 and end in late 2023; therefore, construction of the proposed refinements would still be within the approximate 76 months (six years, four months) that the EIR assumed for construction. The construction staging and laydown area for the proposed refinements would still be within the boundaries of the project site.

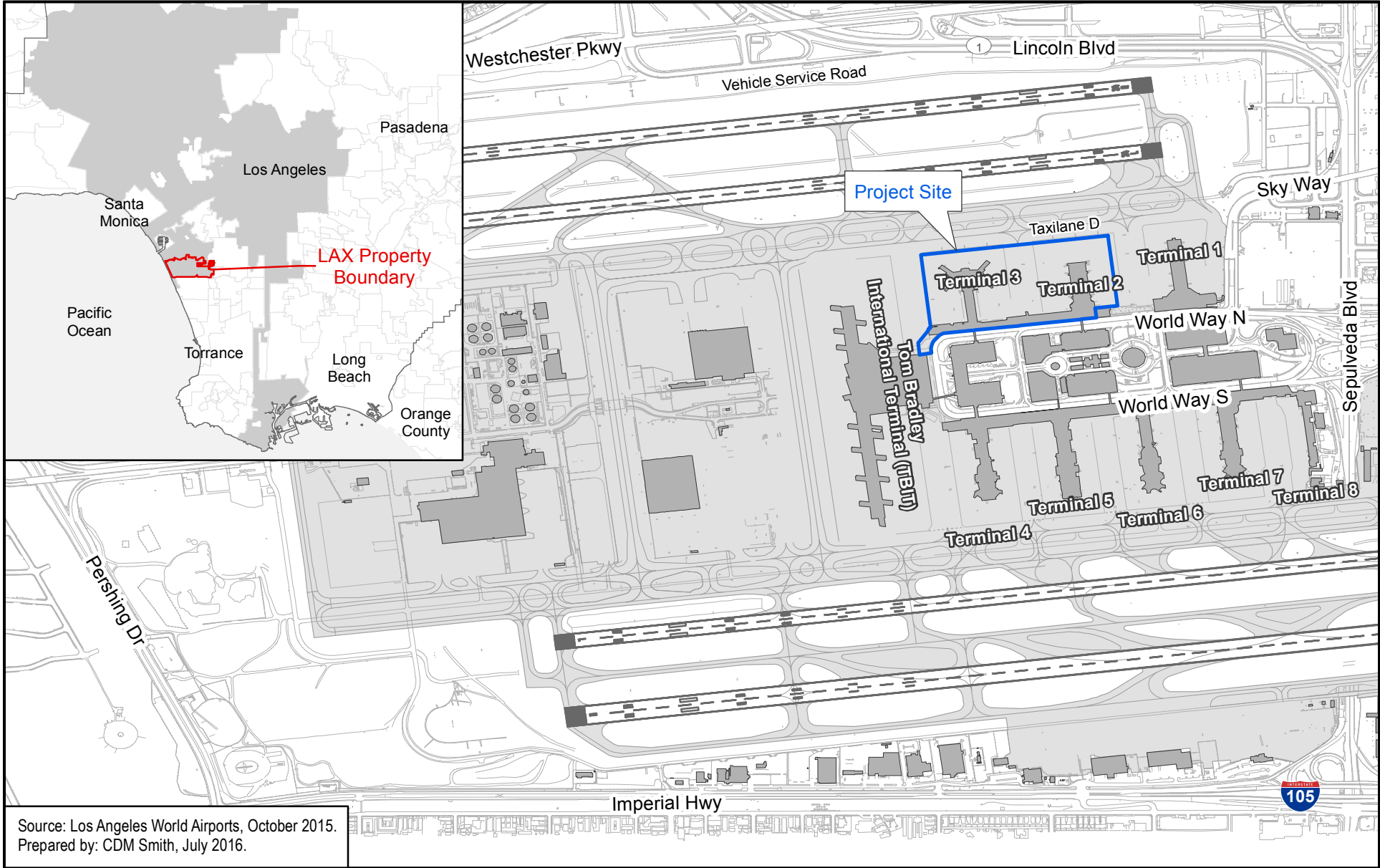
Figure 1 shows the location of LAX and the project site location within LAX.

Overall the proposed refinements to the project include:

- The total area being demolished under the refined scenario is approximately 26,000 square feet larger, equivalent to approximately seven (7) percent increase relative to the analysis in the EIR.
- The refined total area of new, rebuilt, or renovated construction (buildings and apron area) is approximately 658,000 square feet smaller than analyzed for the approved project, which is equivalent to approximately 45 percent decrease relative to the analysis in the EIR.
- The peak month truck trips show a reduction of approximately 28 percent (4,300 peak month trips in the EIR vs 3,100 peak month trips in the refined scenario). Refer to the proposed refinements to the construction assumptions in Appendix A of this Addendum for additional details.
- Other project construction assumptions (i.e., location of construction staging areas, haul routes, use of batch plant facilities at Continental City, construction methods, etc.) are the same or similar to those used in the EIR analyses.

The proposed refinements to the approved LAX Terminals 2 and 3 Modernization Project do not change the conclusions presented in the EIR as it relates to the relationship between the available constrained apron areas, gates, and operations. The available apron areas at Terminals 2 and 3 under the proposed refinement conditions will still provide up to 27 passenger gate positions (also considered Narrowbody Equivalent Gate positions).

¹ As with the approved project, the mosaic tile murals in Terminal 3 would not be impacted by the proposed refinements to the project.



**LAX Terminals 2 and 3 Modernization Project
Addendum**

Project Location Map

Figure
1

2. PURPOSE OF THIS ADDENDUM TO THE FINAL ENVIRONMENTAL IMPACT REPORT

This Addendum is prepared to address the proposed refinements to the LAX Terminals 2 and 3 Modernization Project. The Addendum concludes that these refinements do not materially affect the impacts analyses and conclusions of the LAX Terminals 2 and 3 Modernization Project Final EIR and do not trigger the need to prepare a supplemental or subsequent EIR under Public Resources Code Section 21166 or Sections 15162 and 15163 of the State California Environmental Quality Act (CEQA) Guidelines.

3. REQUIRED FINDINGS FOR USE OF AN ADDENDUM

Section 21166 of CEQA and Section 15162 of the State CEQA Guidelines identify the circumstances that necessitate the preparation of a subsequent EIR.² Specifically, Section 15162 of the State CEQA Guidelines, which is an elaboration of Section 21166 of CEQA, indicates as follows:

- (a) *When an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:*
- (1) *Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;*
 - (2) *Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or*
 - (3) *New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:*
 - (A) *The project will have one or more significant effects not discussed in the previous EIR or negative declaration;*
 - (B) *Significant effects previously examined will be substantially more severe than shown in the previous EIR;*
 - (C) *Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or*
 - (D) *Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.*

Pursuant to Section 15164(a) of the State CEQA Guidelines, the lead agency (LAWA) shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 (above) calling for preparation of a subsequent EIR have occurred. A brief explanation supported by substantial evidence of why an agency decided not to prepare a subsequent EIR pursuant to Section 15162 of the State CEQA Guidelines should also be included in the

² California Administrative Code, Title 14, Division 6, Chapter 3, Sections 15000-15387, "Guidelines for Implementation of the California Environmental Quality Act."

addendum, the findings on the project, or elsewhere in the record. This explanation is included in Section 6 of this Addendum.

4. EVALUATION OF ENVIRONMENTAL IMPACTS

In performing the required analysis pursuant to CEQA and determining that the criteria are met for use of an addendum, this Addendum compares impacts of the proposed refinements to the project as previously approved and included in the certified LAX Terminals 2 and 3 Modernization Project EIR. For purposes of determining whether the proposed refinements trigger the need to prepare a subsequent EIR pursuant to State CEQA Guidelines Section 15162, this Addendum relies on the evaluation of the environmental resources/issues below and summarizes the responses to whether any the criteria presented above in Section 3 have been met. Section 5 contains the discussion/analysis relative to cumulative impacts. The reasons why an addendum is appropriate in this situation is provided in Section 6. Finally, the conclusion associated with the findings of the Addendum is provided in Section 7.

This Addendum compares the anticipated environmental effects of the proposed refinements to the project with those disclosed in the certified LAX Terminals 2 and 3 Modernization Project Final EIR (also referred to as 'EIR'). The analysis in this Addendum then reviews whether any of the conditions set forth in Section 15162 of the State CEQA Guidelines requiring preparation of a subsequent EIR are met and whether there are new significant impacts resulting from the proposed refinements to the project.

4.1 SUMMARY OF ENVIRONMENTAL TOPICS/RESOURCE AREAS THAT WOULD NOT BE AFFECTED BY THE PROPOSED REFINEMENTS

The Notice of Preparation/Initial Study (NOP/IS) for the approved project (refer to Appendix A of the LAX Terminals 2 and 3 Modernization Project Draft EIR) determined that implementation of the approved project would have no impact or a less than significant impact for a number of environmental topics/resource areas. As with the approved project, the proposed refinements would not have impacts related to agricultural and forestry resources, biological resources, land use and planning, mineral resources, population and housing, and recreation. As with the approved project, impacts of the proposed refinements would continue to be less than significant for aesthetics, geology and soils, hazards and hazardous materials, hydrology and water quality, noise, public services, and utilities and service systems.

Determination: *No Changes or New Information Requiring Preparation of a Subsequent EIR*

Conclusion Regarding Applicability of State CEQA Guidelines Section 15162:

As indicated above, the proposed refinements to the project would not result in any new or substantially increased impacts or changes in circumstances or information identified in Appendix A (NOP/IS) of the certified LAX Terminals 2 and 3 Modernization Project Final EIR for the environmental topics of aesthetics, agricultural and forestry resources, biological resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, and utilities and service systems. Therefore, the impacts to these environmental topics/resources as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

4.2 EVALUATION OF ENVIRONMENTAL TOPICS/RESOURCE AREAS THAT WOULD BE AFFECTED BY THE PROPOSED REFINEMENTS BUT WOULD NOT RESULT IN ANY NEW SIGNIFICANT OR SUBSTANTIALLY MORE SEVERE IMPACTS

Air Quality, Human Health Risk, and Greenhouse Gas Emissions

As detailed in Section 4.1.1.6 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.1-20 of the EIR), peak daily construction-related emissions were calculated from a peak-month average day for each month of each year of construction associated with the approved project. As shown in Table 4.1.1-6 of the EIR (page 4.1-20), the unmitigated regional construction emissions would be less than the South Coast Air Quality Management District (SCAQMD) CEQA construction emission thresholds for carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO₂), respirable particulate matter or particulate matter with an aerodynamic diameter less than or equal to 10 micrometers (PM₁₀), and fine particulate matter or particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers (PM_{2.5}) but would exceed the threshold for oxides of nitrogen (NO_x). Therefore, the EIR determined that the approved project's construction emissions of NO_x would be a significant impact. In addition, the local effects from the on-site portion of construction emissions were evaluated at nearby sensitive receptor locations that could be affected by the approved project. As summarized in Table 4.1.1-8 of the EIR (page 4.1-22), the unmitigated local construction concentrations would be less than the SCAQMD CEQA ambient air quality standards for all criteria pollutants except for nitrogen dioxide (NO₂) 1-hr National Ambient Air Quality Standards (NAAQS). Therefore, the EIR determined that the localized construction impacts of the approved project relative to NO₂ concentrations would be significant.

The LAX Terminals 2 and 3 Modernization Project EIR identified one Standard Control Measure (Mitigation Measure) to address that impact, Standard Control Measure (Mitigation Measure) LAX-AQ-1 - Construction-Related Air Quality Control Measures, and one project-specific Mitigation Measure, MM-AQ (T2/T3)-1 – Preferential Use of Renewable Diesel Fuel, to address construction-related emissions associated with the approved project. Implementation of the measures would result in substantial emission reductions compared to fleet-wide average emissions for heavy-duty construction equipment and trucks in the southern California region. Although the inclusion of the measures would reduce construction-related emissions, regional emissions of NO_x would remain significant. However, the EIR determined that the mitigated localized construction effects would be less than significant for NO₂.

As detailed in Section 4.1.2.4 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.1-41 of the EIR), human health impacts (i.e., incremental cancer risks, incremental chronic and acute non-cancer hazards, cancer burden, and occupational risks) associated with implementation of the approved project were found to be less than significant.

As detailed in Section 4.2.5 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.2-17 of the EIR), implementation of the approved project compared to 2016 Baseline Conditions would result in an increase in greenhouse gas emissions but would not exceed the 10,000 MTCO₂e/yr as the threshold of significance nor would the approved project conflict with state, regional and local plans, policies, or regulations adopted for the purpose of reducing greenhouse gas emissions. Therefore, the EIR found that greenhouse gas impacts associated with the approved project would be less than significant.

The nature, size, and scale of the proposed refinements to the approved project would result in a reduction of the terminal improvements/additions and reconstruction of Terminal 2 apron area. The EIR evaluation calculated a greater amount of construction than the proposed refinements to the project would require. To determine the magnitude of the refinements versus the approved project, an inventory of both peak-monthly and yearly off-road diesel heavy-duty construction equipment activity associated with the refined schedule and assumptions (included in Appendix A of this Addendum), as well as haul truck trips and construction worker trips were compared to the approved project schedule and assumptions (included in Appendix B.1.1 of the EIR). This activity is presented in units of horsepower-hours (hp-hr) and round trips in **Table 1** below. As shown in Appendix B.1 of the LAX Terminals 2 and 3 Modernization Project EIR, off-road diesel heavy-duty construction equipment activity represents the clear majority of all criteria pollutant and greenhouse gas emissions associated with the project. Additionally, equipment emission standards for nonroad diesel engines, as established by the USEPA, are defined in units of grams per hp-hr. Thus, use of total annual

and peak-monthly hp-hr as a surrogate for qualitatively comparing emissions is appropriate. Table 1 presents the annual and peak monthly on-road vehicle trips and hp-hrs of off-road diesel heavy-duty construction equipment used in the refinement to the schedule compared with the activity assumed in the EIR schedule.

Table 1: Comparison of Construction Haul Trips, Worker Trips, Peak Month and Peak Year Activity Between EIR and Proposed Refinement Assumptions			
Activity	EIR	Refinements	Differential (% change)
Peak Month Haul Truck Trips (round trips/month)	4,303	3,093	-28%
Peak Month Worker Vehicle Trips (round trips/month)	12,091	5,326	-56%
Peak Month Equipment Activity (hp-hr/month)	2,405,036	1,714,573	-29%
Peak Annual Equipment Activity (hp-hr/year)	21,338,039	11,810,383	-45%

As shown in Table 1, the project on-road vehicle and total off-road diesel heavy-duty construction equipment activity in the peak month would be considerably lower based on the proposed refinements than the approved project as analyzed in the EIR. Additionally, the peak year of construction activity for the proposed refinements would also be lower. Since emissions of criteria pollutants and greenhouse gases are proportional to equipment activity, the proposed refinements to the project activities would reduce emissions associated with implementation of the project compared to the emissions presented in the EIR. For this reason, emissions of greenhouse gases and criteria pollutants would be reduced under the proposed refinements to the project as compared to the approved project, and thus there would be no new significant or more severe impacts to regional air quality. Additionally, annual localized concentrations and human health risk results would be reduced by the overall reduction in emissions that would occur with the proposed refinements.

Determination: *No Changes or New Information Requiring Preparation of a Subsequent EIR*

Conclusion Regarding Applicability of State CEQA Guidelines Section 15162:

The proposed refinements to the LAX Terminals 2 and 3 Modernization Project would not increase the severity of previously identified air quality, human health risk, or greenhouse gas impacts, nor would they result in any new significant effects that were not previously identified in the LAX Terminals 2 and 3 Modernization Project EIR. The Standard Control Measure (Mitigation Measure) LAX-AQ-1 and project-specific Mitigation Measure MM-AQ(T2/3)-1 previously adopted for the approved LAX Terminals 2 and 3 Modernization Project, would apply to the proposed refinements to the project described herein, as applicable. Therefore, the impacts to air quality, human health risk, and greenhouse gases as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

Cultural Resources

Historic Resources

As discussed in Section 4.3.1 of the LAX Terminals 2 and 3 Modernization Project EIR, specifically on pages 4.3-1 and 4.3-2, evaluation of potential historical structures within and adjacent to the project site was conducted by Historic Resources Group in June 2016. As detailed in the historical evaluation for the project (Appendix A of the Draft EIR), Terminal 2 was originally constructed in 1961 but was demolished and completely reconstructed in place in 1988. Terminal 2 is not eligible for listing as a historic resource and is not considered a historical resource as defined in the State CEQA Guidelines Section 15064.5. Terminal 3 was constructed in 1961 and is the only terminal on the north side of the CTA that includes one of the airport’s original early-1960s oval-shaped satellite terminals. Terminal 3 has been substantially altered since 1961. Very little remains of the original Terminal 3 ticketing/baggage building with the exception of remnant ceramic tile cladding in some locations. Terminal 3 has also retained its original underground tunnel with mosaic tile murals connecting the original (1961) ticketing/baggage building to the

oval shaped satellite building. The Terminal 3 satellite, built in 1961, remains largely intact but its southern façade has been altered by the addition of an aboveground concourse pier connecting the ticketing/baggage claim buildings to the satellite. Alteration of the original ticketing/baggage building and the addition of the connecting concourse in the 1980s have substantially changed the original 1961 configuration of Terminal 3 such that its original form is only partially apparent. Therefore, Terminal 3 no longer retains sufficient integrity to be eligible for federal, state or local listing as a historic resource and is not considered a historical resource as defined in State CEQA Guidelines Section 15064.5. As concluded in the LAX Terminals 2 and 3 Modernization Project EIR, implementation of the approved project would not impact any significant historic resources because there are none within the project area. As with the approved project, the proposed refinements to the project would not impact significant historic resources.

Archaeological and Paleontological Resources

As detailed in Section 4.3.5 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.3-17 of the EIR), while discovery of archaeological and/or paleontological resources within the project area is unlikely, grading/excavation associated with construction of the project (which would not change based on the proposed refinements to the project) would be of varying depths across portions of the project site, including excavations at depths where native soils would be encountered. As such, the project could impact previously unknown buried unique archaeological and/or paleontological resources, which would be a significant impact. The LAX Terminals 2 and 3 Modernization Project EIR identified four Standard Control Measures (Mitigation Measures) to address that potential impact, including: Standard Control Measures (Mitigation Measures) LAX-AR-1 - Conformance with LAWA's Archaeological Treatment Plan; LAX-AR-2 - Archaeological Resources Construction Personnel Briefing; LAX-PR-1 - Conformance with LAWA's Paleontological Management Treatment Plan; and, LAX-PR-2 - Paleontological Resources Construction Personnel Briefing. Implementation of those Standard Control Measures (Mitigation Measures) would ensure that impacts to archaeological and paleontological resources would be less than significant.

Development of the proposed refinements to the project would include subsurface excavation similar to that previously contemplated in the LAX Terminals 2 and 3 Modernization Project EIR. Thus, the same potential for unexpectedly encountering archaeological or paleontological resources exists. As with the approved project, the project as refined would be subject to the requirements of the four aforementioned Standard Control Measures (Mitigation Measures), which serve to ensure that impacts to archaeological and paleontological resources would continue to be less than significant.

Tribal Cultural Resources and Human Remains

As detailed in Section 4.3.5 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.3-17 of the EIR), the project site and construction staging area are within a highly urbanized area that has been subject to disturbance by airport operations and development, placement of artificial fill, grading, and other on-going construction activities; there are no known Tribal cultural resources or known formal or dedicated cemeteries at the project site and construction staging area and vicinity, that may be affected by the approved project. As such, the discovery of Tribal cultural resources or disturbance of any human remains within the project area is unlikely. Therefore, impacts on Tribal cultural resources and human remains would be less than significant. It should be noted that implementation of archaeological resources Standard Control Measure (Mitigation Measure) LAX-AR-1 - Conformance with LAWA's Archaeological Treatment Plan, would also further reduce the potential for impacts on Tribal cultural resources.

Development of the proposed refinements to the project would include subsurface excavation similar to that previously contemplated in the LAX Terminals 2 and 3 Modernization Project EIR. As with the approved project, the potential impacts related to Tribal cultural resources and human remains would continue to be less than significant.

Determination: *No Changes or New Information Requiring Preparation of a Subsequent EIR*

Conclusion Regarding Applicability of State CEQA Guidelines Section 15162:

No substantial changes to cultural resources (historic resources eligible for listing; archaeological, paleontological and tribal cultural resources; and human remains) have occurred since certification of the LAX Terminals 2 and 3 Modernization Project EIR, and no new cultural resources have been identified.

Based on the above, no new significant cultural resource impacts or a substantial increase in previously identified cultural resources impacts would occur as a result of the proposed refinements to the project. All mitigation measures previously adopted for the approved LAX Terminals 2 and 3 Modernization Project would apply to the project as refined and described herein, as applicable. Therefore, the impacts to cultural resources as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

Construction Surface Transportation

As described in Section 4.4.5 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.4-28), the number of construction surface transportation impacts generated by the approved project would vary slightly based on the assumed location of the construction staging area. Impact Comparison 1: Peak Project Construction Traffic Plus Baseline Traffic Measured Against Baseline, provides the basis for determining project-related impacts. The comparison is based on project-specific traffic generation during the peak construction period (March 2020) added to baseline traffic volumes. The resulting levels of service were compared to the levels of service associated with the baseline condition. A significant impact would be realized if the thresholds of significance are met or exceeded. The EIR determined that no significant impacts would occur under the approved project assuming material staging occurs at either the proposed primary or optional primary construction staging area.

Under the proposed refinements to the project, the number of employee and haul truck trips would be similar or less than those analyzed in the EIR. Therefore, the proposed refinements to the project would not result in any additional significant impacts than those previously identified in the EIR, and impacts associated with construction surface transportation would continue to be less than significant.

Determination: *No Changes or New Information Requiring Preparation of a Subsequent EIR*

Conclusion Regarding Applicability of State CEQA Guidelines Section 15162:

The proposed refinements to the LAX Terminals 2 and 3 Modernization Project would not result in any new or substantially increased significant effects that were not previously identified in the LAX Terminals 2 and 3 Modernization Project EIR. Therefore, the impacts to construction surface transportation as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

Energy Impacts and Conservation

Energy impacts and conservation were analyzed in Chapter 6 of the LAX Terminals 2 and 3 Modernization Project EIR (Section 6.5 beginning on page 6-4 of the EIR). As detailed in Section 6.5 of the EIR, the project is located within an area that has existing energy and water available to serve the approved project. It would comply with federal, state, and local regulations and policies reducing energy demand associated with building energy use, water demand, wastewater generation, vehicle fuels, and construction equipment. In addition, electricity supplied to the project would be required to comply with California's aggressive renewable portfolio standard. Therefore, the approved project's construction and operation would not result in wasteful, inefficient, or unnecessary energy use; would not increase reliance on fossil fuels; and would incorporate renewable energy and energy efficiency measures. Since the approved project's energy impacts would therefore be less than significant, no energy mitigation measures (e.g., additional energy conservation measures) are required. The approved project's vehicle fuel use and reliance on fossil fuels would be further reduced by implementation of Standard Control Measure (Mitigation Measure) LAX-AQ-1 and project-specific Mitigation Measure AQ (T2/T3)-1.

As discussed above under Air Quality, Human Health Risk, and Greenhouse Gas Emissions, and presented in Table 1 of this Addendum, total off-road diesel heavy-duty construction equipment activity of the approved project would be substantially reduced by the proposed refinements. Thus, the energy consumption associated with the operation of that equipment, in the form of diesel fuel, would be substantially reduced with the implementation of the proposed refinements to the project. Therefore, the proposed refinements to the project would not result in wasteful, inefficient or unnecessary energy consumption, and would reduce reliance on fossil fuels, and as with the approved project, the impact would be less than significant.

Determination: *No Changes or New Information Requiring Preparation of a Subsequent EIR*

Conclusion Regarding Applicability of State CEQA Guidelines Section 15162:

The proposed refinements to the LAX Terminals 2 and 3 Modernization Project would not result in any new or substantially increased significant effects that were not previously identified in the LAX Terminals 2 and 3 Modernization Project EIR. Therefore, the impacts to energy and energy conservation as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

5. CUMULATIVE IMPACTS

As described above in Section 4, as with the approved project analyzed in the LAX Terminals 2 and 3 Modernization Project EIR, the proposed refinements to the project would not result in any new significant or more severe impacts related to aesthetics, agricultural and forestry resources, biological resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, utilities and service systems, human health risks, greenhouse gas emissions,³ cultural resources, and energy conservation. For the same reasons described in LAX Terminals 2 and 3 Modernization Project EIR, the proposed refinements to the project would not contribute to cumulative impacts related to those environmental resources/issues.

The LAX Terminals 2 and 3 Modernization Project EIR determined that the approved project would result in unmitigable cumulatively considerable impacts for air quality and construction surface transportation. For air quality, as shown in Table 4.1.1-9 on page 4.1-23 of the EIR, the approved project's cumulative construction emissions of CO, VOC, NO_x, PM₁₀, and PM_{2.5} would exceed the significance thresholds. Therefore, the EIR determined that cumulative construction emissions of these five pollutants would be cumulatively significant. However, construction of the approved project would only exceed the project-specific significance construction emission thresholds for NO_x; therefore, the EIR determined that the approved project's contribution to cumulative CO, VOC, PM₁₀, and PM_{2.5} impacts would not be cumulatively considerable, and only the approved project's contribution to cumulative NO_x impacts would be cumulatively considerable. As described above, implementation of the proposed refinements to the project would not result in a new or substantially more severe cumulatively considerable impact regarding air quality or otherwise affect the conclusions of the LAX Terminals 2 and 3 Modernization Project EIR. Therefore, the impacts to cumulative air quality as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

As described in Section 4.4.5 of the LAX Terminals 2 and 3 Modernization Project EIR (beginning on page 4.4-28), assuming construction staging occurs at the proposed primary construction staging area, the approved project's contribution would be cumulatively considerable at two of the significantly impacted intersections (Century Boulevard and Sepulveda Boulevard [Intersection #5] and Imperial Highway and I-105 Ramp [Intersection #14]). Conversely, assuming construction staging occurs at the optional

³ As discussed in Section 4.2.2 of the LAX Terminals 2 and 3 Modernization Project EIR, greenhouse gas emission impacts are treated as exclusively cumulative impacts; there are no non-cumulative (i.e., project-specific) greenhouse gas emission impacts from a climate change perspective.

construction staging area, the approved project's contribution would be cumulatively considerable at only one of the significantly impacted intersections (Century Boulevard and Sepulveda Boulevard [Intersection #5]).

The proposed refinements to the LAX Terminals 2 and 3 Modernization Project include an adjustment to the project schedule without an adjustment in overall project cost. Using the methodology described in Section 4.4.3.8 of the EIR, the cumulative peak month was estimated to shift from November 2019 to January 2020 under the refined project, which represents a minor adjustment to the overall project characteristics. However, under the cumulative peak condition, the number of employee and haul truck trips for both the approved project and other cumulative projects were similar or less than those analyzed in the EIR. Therefore, the proposed refinements to the project would not result in any additional cumulatively significant impacts than those previously identified in the EIR. The EIR determined that no mitigation is feasible for the cumulatively considerable significant construction traffic impact at Intersections #5 and #14. Although it was determined these impacts would be significant and unavoidable, LAWA would implement Standard Control Measure LAX-ST-1, Construction Traffic Management Plan, which would serve to reduce construction impacts on study area intersections not significantly impacted. This Standard Control Measure, as previously identified in the EIR, would apply to the proposed refinements to the project. Therefore, implementation of the proposed refinements to the project would not result in a new significant construction traffic impact or a substantial increase in the severity of previously identified construction traffic impacts. The impacts to cumulative construction surface transportation as a result of the proposed refinements to the project would not trigger any of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR.

Analysis of the Change in the Project

The nature and characteristics of the proposed refinements to the project do not represent a substantial change to the overall approved LAX Terminals 2 and 3 Modernization Project and, based on the discussions above, implementation of the refinements would not substantially affect the analysis or conclusions regarding cumulative impacts that are addressed in the certified LAX Terminals 2 and 3 Modernization Project EIR.

6. ASSESSMENT OF CHANGES IN IMPACTS

Section 15164 of the State CEQA Guidelines identifies the circumstances that permit the completion of an addendum. The State CEQA Guidelines state that, "The lead agency or responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred." The State CEQA Guidelines also require that a brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence.

An explanation of why none of the conditions described in Section 15162 of the State CEQA Guidelines calling for the preparation of a subsequent EIR have occurred, as well as incorporation of the above discussion, is provided below.

- (1) *Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.*

The changes to the LAX Terminals 2 and 3 Modernization Project analyzed in this Addendum constitute minor changes to the overall LAX Terminals 2 and 3 Modernization Project and would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

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- (2) *Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.*

There have been no substantial changes with respect to the circumstances under which the approved LAX Terminals 2 and 3 Modernization Project is undertaken.

- (3) *New information of substantial importance, which was not known and could not have been known, with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:*

(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration.

There is no evidence to suggest that the changes contemplated by this Addendum would result in any new or more significant impacts on the environment as compared to those discussed in the certified EIR. The approved LAX Terminals 2 and 3 Modernization Project has not changed in a way that would result in a significant physical impact on the environment that is different from the impacts identified in the LAX Terminals 2 and 3 Modernization Project EIR. All previously identified mitigation measures and Standard Control Measures contained in the LAX Terminals 2 and 3 Modernization Project EIR's Mitigation Monitoring and Reporting Program remain in effect and applicable per their terms.

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR.

None of the effects identified in this Addendum would be substantially more severe than identified in the LAX Terminals 2 and 3 Modernization Project EIR. All of the effects identified in this Addendum would be similar to those identified in the LAX Terminals 2 and 3 Modernization Project EIR.

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative.

The LAX Terminals 2 and 3 Modernization Project has not changed in any way that would result in significant physical changes in the environment beyond those already contemplated, analyzed, and disclosed in the LAX Terminals 2 and 3 Modernization Project EIR. The proposed refinements to the LAX Terminals 2 and 3 Modernization Project have no effect on the mitigation measures contemplated during preparation of the LAX Terminals 2 and 3 Modernization Project EIR, and no mitigation measures previously found not to be feasible would become feasible with the proposed refinements to the project. Further, all mitigation measures and Standard Control Measures identified in the LAX Terminals 2 and 3 Modernization Project EIR's Mitigation Monitoring and Reporting Program remain applicable.

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

No additional mitigation measures or alternatives have been identified that would substantially reduce the significant impacts identified in the LAX Terminals 2 and 3 Modernization Project EIR. Previously identified mitigation measures and Standard

Control Measures contained in the LAX Terminals 2 and 3 Modernization Project EIR's Mitigation Monitoring and Reporting Program remain applicable.

7. CONCLUSION

Substantial evidence, including the analysis and information contained in this Addendum, supports the conclusion that none of the conditions described in State CEQA Guidelines Section 15162 calling for preparation of a subsequent EIR have occurred.

APPENDIX A

**Comparison Table of the Approved Project and Proposed Refinements;
Refinements to the Construction Schedule and Assumptions;
And,
Air Quality Emission Worksheets**

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Comparison Table of the Approved Project ('EIR') and Proposed Refinements to the Project ('Refinement')¹												
Facility	Existing Building Area (EIR)	Existing Area Renovation (EIR)	Existing Area Renovation (Refinement)	Existing Area Demolition (EIR)	Existing Area Demolition (Refinement)	Existing Area Rebuild (EIR)	Existing Area Rebuild (Refinement)	New Construction Area (EIR)	New Construction Area (Refinement)	Total Area (EIR)	Total Area (Refinement)	Program Total Area Differential
Terminal 2.5 Ticketing Building												
Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	40,000 sf	0 sf	40,000 sf	0 sf	-40,000 sf
Office Level	2,725 sf	0 sf	0 sf	-2,725 sf	0 sf	2,725 sf	0 sf	142,275 sf	86,995 sf	145,000 sf	89,720 sf	-55,280 sf
SSCP/Office Level	40,123 sf	0 sf	5,323 sf	-40,123 sf	-32,541 sf	40,123 sf	32,541 sf	104,877 sf	103,409 sf	145,000 sf	143,532 sf	-1,468 sf
Ticketing Level	89,210 sf	0 sf	5,260 sf	-89,210 sf	-64,641 sf	89,210 sf	64,641 sf	25,790 sf	55,303 sf	115,000 sf	144,513 sf	29,513 sf
Arrivals Level	91,107 sf	0 sf	5,360 sf	-91,107 sf	-63,590 sf	91,107 sf	63,590 sf	133,893 sf	97,193 sf	225,000 sf	188,300 sf	-36,700 sf
Total	223,165 sf	0 sf	15,943 sf	-223,165 sf	-160,772 sf	223,165 sf	160,772 sf	446,835 sf	342,900 sf	670,000 sf	566,065 sf	-103,935 sf
Terminal 2 Concourse Building												
Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	5,000 sf	0 sf	5,000 sf	0 sf	-5,000 sf
Lounge Level	36,727 sf	14,300 sf	0 sf	0 sf	0 sf	0 sf	0 sf	19,803 sf	0 sf	56,530 sf	36,727 sf	-19,803 sf
Concourse Level	86,048 sf	60,200 sf	16,053 sf	0 sf	-888 sf	0 sf	888 sf	17,952 sf	4,115 sf	104,000 sf	90,163 sf	-13,837 sf
Ramp Level	84,130 sf	42,200 sf	0 sf	0 sf	-565 sf	0 sf	565 sf	13,850 sf	3,010 sf	97,980 sf	87,140 sf	-10,840 sf
FIS Level	87,796 sf	42,400 sf	0 sf	0 sf	0 sf	0 sf	0 sf	13,204 sf	0 sf	101,000 sf	87,796 sf	-13,204 sf
Total	294,701 sf	159,100 sf	16,053 sf	0 sf	-1,453 sf	0 sf	1,453 sf	69,809 sf	7,125 sf	364,510 sf	301,826 sf	-62,684 sf
Terminal 3 Concourse Building												
Control Center	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	2,200 sf	0 sf	2,200 sf	0 sf	-2,200 sf
Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	15,000 sf	0 sf	15,000 sf	0 sf	-15,000 sf
Lounge Level	15,164 sf	0 sf	0 sf	0 sf	-16,173 sf	0 sf	16,173 sf	47,336 sf	7,767 sf	62,500 sf	22,931 sf	-39,569 sf
Concourse Level	96,744 sf	58,394 sf	0 sf	-38,350 sf	-83,738 sf	38,350 sf	79,123 sf	28,256 sf	0 sf	125,000 sf	92,129 sf	-32,871 sf
Ramp Level	95,435 sf	46,537 sf	0 sf	-48,898 sf	-53,657 sf	48,898 sf	53,657 sf	29,565 sf	20,864 sf	125,000 sf	116,299 sf	-8,701 sf
Tunnel Level	23,800 sf	23,800 sf	0 sf	0 sf	-23,754 sf	0 sf	23,754 sf	0 sf	0 sf	23,800 sf	23,800 sf	0 sf
Total	231,143 sf	128,731 sf	0 sf	-87,248 sf	-177,322 sf	87,248 sf	172,707 sf	122,357 sf	28,631 sf	353,500 sf	255,159 sf	-98,341 sf
Terminal 3.5 Ticketing Building												
Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	12,000 sf	0 sf	12,000 sf	0 sf	-12,000 sf
Office Level	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	45,000 sf	4,032 sf	45,000 sf	4,032 sf	-40,968 sf
SSCP/Office Level	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	45,000 sf	21,645 sf	45,000 sf	21,645 sf	-23,355 sf
Ticketing Level	16,779 sf	0 sf	0 sf	-16,779 sf	-15,265 sf	16,779 sf	15,265 sf	53,221 sf	4,383 sf	70,000 sf	21,162 sf	-48,838 sf
Arrivals Level	22,230 sf	0 sf	0 sf	-22,230 sf	-20,631 sf	22,230 sf	20,631 sf	37,770 sf	0 sf	60,000 sf	22,230 sf	-37,770 sf

¹ Square footages represent approximations only, and minor changes may be made during preparation of final construction drawings.

Comparison Table of the Approved Project ('EIR') and Proposed Refinements to the Project ('Refinement') ¹												
Facility	Existing Building Area (EIR)	Existing Area Renovation (EIR)	Existing Area Renovation (Refinement)	Existing Area Demolition (EIR)	Existing Area Demolition (Refinement)	Existing Area Rebuild (EIR)	Existing Area Rebuild (Refinement)	New Construction Area (EIR)	New Construction Area (Refinement)	Total Area (EIR)	Total Area (Refinement)	Program Differential
Total	39,009 sf	0 sf	0 sf	-39,009 sf	-35,896 sf	39,009 sf	35,896 sf	192,991 sf	30,060 sf	232,000 sf	69,069 sf	-162,931 sf
	788,018 sf	287,831 sf	31,996 sf	-349,422 sf	-375,443 sf	349,422 sf	370,828 sf	831,992 sf	408,716 sf	1,620,010 sf	1,192,119 sf	-427,891 sf

LAX T2/T3 Modernization Project, Addendum

Comparison of total disturbed construction area

Facility	Existing Building Area (T2/T3 EIR)	Existing Area Renovation (T2/T3 EIR)	Existing Area Renovation (Refinement)	Existing Area Demolition (T2/T3 EIR)	Existing Area Demolition (Refinement)	Existing Area Rebuild (T2/T3 EIR)	Existing Area Rebuild (Refinement)	New Construction Area (T2/T3 EIR)	New Construction Area (Refinement)	New, Rebuilt, or Renov'd Area (T2/T3 EIR)	New, Rebuilt, or Renov'd Area (Refinement)	Total Disturbed Area Differential
T2.5 Ticketing Building	Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	40,000 sf	0 sf	40,000 sf	0 sf	-40,000 sf
	Office Level	2,725 sf	0 sf	0 sf	2,725 sf	0 sf	2,725 sf	142,275 sf	86,995 sf	145,000 sf	86,995 sf	-58,005 sf
	SSCP/Office Level	40,123 sf	0 sf	5,323 sf	40,123 sf	32,541 sf	40,123 sf	104,877 sf	103,409 sf	145,000 sf	141,273 sf	-3,727 sf
	Ticketing Level	89,210 sf	0 sf	5,260 sf	89,210 sf	64,641 sf	89,210 sf	25,790 sf	55,303 sf	115,000 sf	125,204 sf	10,204 sf
	Arrivals Level	91,107 sf	0 sf	5,360 sf	91,107 sf	63,590 sf	91,107 sf	133,893 sf	97,193 sf	225,000 sf	166,143 sf	-58,857 sf
	Total	223,165 sf	0 sf	15,943 sf	223,165 sf	160,772 sf	223,165 sf	446,835 sf	342,900 sf	670,000 sf	519,615 sf	-150,385 sf
Terminal 2 Concourse Building	Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	5,000 sf	0 sf	5,000 sf	0 sf	-5,000 sf
	Lounge Level	36,727 sf	14,300 sf	0 sf	0 sf	0 sf	0 sf	19,803 sf	0 sf	34,103 sf	0 sf	-34,103 sf
	Concourse Level	86,048 sf	60,200 sf	16,053 sf	0 sf	888 sf	0 sf	17,952 sf	4,115 sf	78,152 sf	21,056 sf	-57,096 sf
	Ramp Level	84,130 sf	42,200 sf	0 sf	0 sf	565 sf	0 sf	13,850 sf	3,010 sf	56,050 sf	3,575 sf	-52,475 sf
	FIS Level	87,796 sf	42,400 sf	0 sf	0 sf	0 sf	0 sf	13,204 sf	0 sf	55,604 sf	0 sf	-55,604 sf
	Total	294,701 sf	159,100 sf	16,053 sf	0 sf	1,453 sf	0 sf	69,809 sf	7,125 sf	228,909 sf	24,631 sf	-204,278 sf
Terminal 3 Concourse Building	Control Center	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	2,200 sf	0 sf	2,200 sf	0 sf	-2,200 sf
	Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	15,000 sf	0 sf	15,000 sf	0 sf	-15,000 sf
	Lounge Level	15,164 sf	0 sf	0 sf	0 sf	16,173 sf	0 sf	47,336 sf	7,767 sf	47,336 sf	23,940 sf	-23,396 sf
	Concourse Level	96,744 sf	58,394 sf	0 sf	38,350 sf	83,738 sf	38,350 sf	79,123 sf	28,256 sf	125,000 sf	79,123 sf	-45,877 sf
	Ramp Level	95,435 sf	46,537 sf	0 sf	48,898 sf	53,657 sf	48,898 sf	53,657 sf	29,565 sf	125,000 sf	74,521 sf	-50,479 sf
	Tunnel Level	23,800 sf	23,800 sf	0 sf	0 sf	23,754 sf	0 sf	23,754 sf	0 sf	23,800 sf	23,754 sf	-46 sf
Total	231,143 sf	128,731 sf	0 sf	87,248 sf	177,322 sf	87,248 sf	172,707 sf	122,357 sf	28,631 sf	338,336 sf	201,338 sf	-136,998 sf
Terminal 3.5 Ticketing Building	Mechanical Space	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	12,000 sf	0 sf	12,000 sf	0 sf	-12,000 sf
	Office Level	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	45,000 sf	4,032 sf	45,000 sf	4,032 sf	-40,968 sf
	SSCP/Office Level	0 sf	0 sf	0 sf	0 sf	0 sf	0 sf	45,000 sf	21,645 sf	45,000 sf	21,645 sf	-23,355 sf
	Ticketing Level	16,779 sf	0 sf	0 sf	16,779 sf	15,265 sf	16,779 sf	53,221 sf	4,383 sf	70,000 sf	19,648 sf	-50,352 sf
	Arrivals Level	22,230 sf	0 sf	0 sf	22,230 sf	20,631 sf	22,230 sf	37,770 sf	0 sf	60,000 sf	20,631 sf	-39,369 sf
	Total	39,009 sf	0 sf	0 sf	39,009 sf	35,896 sf	39,009 sf	35,896 sf	192,991 sf	30,060 sf	232,000 sf	65,956 sf
Grand Total	788,018 sf	287,831 sf	31,996 sf	349,422 sf	375,443 sf	349,422 sf	370,828 sf	831,992 sf	408,716 sf	1,469,245 sf	811,540 sf	-657,705 sf

¹ Square footages represent approximations only, and minor changes may be made during preparation of final construction drawings.

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Comparison of EIR Construction Schedule and Refined Construction Schedule Air Quality Metrics

HAUL TRUCK AND WORKER VEHICLE TRIPS

HAUL TRUCK TRIPS

Peak Monthly Haul Truck Trips (EIR) = 4,303 trips
Peak Monthly Haul Truck Trips (Refinement) = 3,093 trips
Peak Daily Haul Truck Trips (EIR) = 181 trips
Peak Daily Haul Truck Trips (Refinement) = 134 trips
Month of Peak Haul Trips (EIR) = February, 2022
Month of Peak Haul Trips (Refinement) = September, 2020

WORKER TRIPS

Peak Monthly Worker Vehicle Trips (EIR) = 12,091 trips
Peak Monthly Worker Vehicle Trips (Refinement) = 5,326 trips
Peak Daily Worker Vehicle Trips (EIR) = 550 trips
Peak Daily Worker Vehicle Trips (Refinement) = 232 trips
Month of Peak Haul Trips (EIR) = November, 2020
Month of Peak Haul Trips (Refinement) = May, 2020

Note: All trips are round-trips unless otherwise specified.

TOTAL DAYS OF DEMOLITION

TOTAL INTENSITY-WEIGHTED DAYS OF DEMOLITION

Total Intensity-Weighted Demolition (EIR) = 138 days
Total Intensity-Weighted Demolition (Refinement) = 200 days

HEAVY-DUTY OFF-ROAD CONSTRUCTION EQUIPMENT ACTIVITY

EQUIPMENT ACTIVITY (TOTAL HP-HRS per MONTH)

Peak Monthly Heavy-Duty Off-Road Diesel Equipment Activity (EIR) = 2,405,036 hp-hrs
Peak Monthly Heavy-Duty Off-Road Diesel Equipment Activity (Refinement) = 1,714,573 hp-hrs

Note: HP-HRS of use summed across all like equipment; Heavy-duty off-road diesel equipment is the primary source of emissions for the Project, thus HP-HRS of this equipment is compared. HP-HRS is an acceptable surrogate for total emissions when qualitatively comparing project magnitudes.

EQUIPMENT ACTIVITY (TOTAL HP-HRS per YEAR)

	2017	2018	2019	2020	2021	2022	2023
<i>Project EIR:</i>	2,635,136	9,633,215	7,975,348	13,280,002	21,338,039	17,810,414	2,495,645
<i>Refinement:</i>	1,479,592	2,259,521	11,810,383	7,862,168	2,481,755	6,601,992	5,330,666

LAX T2/T3 Modernization Project, Addendum

Comparison of EIR Construction Schedule and Refined Construction Schedule Heavy Duty Equipment Activity

SUMMARY BY EQUIPMENT TYPE	Peak Month Activity (HP-HRS)	Equip HP-HRS per Year per Equipment (EIR)						
	Project EIR	2017	2018	2019	2020	2021	2022	2023
150TN Crane	0	0	0	0	0	0	0	0
Air Compressor (Ingersoll-Rand P250WDJ)	0	0	0	0	0	0	42,869	4,689
Asphalt Paver, 7 CY Hopper (Barber-Greene BG270B)	0	0	0	0	0	0	87,184	0
Backhoe (John Deere 710D)	48,447	102,101	409,975	409,975	412,523	329,437	787,436	787,072
Bulldozer (CAT D10R)	25,375	162,659	174,278	0	79,586	301,044	299,890	69,205
Compactor (CAT CB563C)	0	0	0	0	0	0	42,297	0
Concrete Paver - Bidwell (CAT SF-7400)	0	0	0	0	0	0	246,497	0
Concrete Saw (Unitec CSR150)	0	0	0	0	0	0	10,717	1,172
Dump Truck 13 CY	559,112	510,722	1,382,407	0	359,424	3,066,020	939,295	125,710
Excavator (CAT 330L)	87,483	122,408	257,931	0	185,429	773,675	160,370	45,518
Flat Bed Truck (Freightliner FLD120SD)	3,137	0	0	0	18,824	37,221	37,078	0
Fork Lift (Manitou M430CP)	24,703	71,860	288,546	288,546	354,415	224,005	594,413	666,741
Generator (CAT 3412TA)	915	4,641	18,635	18,635	21,071	8,621	40,111	55,529
Hydraulic Concrete Breaking Machines	38,754	94,598	101,355	0	88,498	331,265	174,407	40,248
Loader (CAT 988F)	159,535	208,947	440,281	0	195,474	1,064,297	273,746	77,698
Motor Grader (CAT 14H)	19,792	0	0	0	62,074	234,802	201,965	26,989
Scraper (CAT 631E)	21,052	0	0	0	66,026	249,751	248,794	57,414
Sheep's Foot Compactor (CAT CB634C)	6,127	0	0	0	19,216	72,687	0	0
Transit Mixer Truck 10 CY	681,120	0	224,460	0	3,065,040	6,929,880	6,331,320	0
Water Truck (CAT 766C)	689,040	1,357,200	5,449,680	5,449,680	8,320,680	7,501,140	6,958,260	537,660
Welder (Lincoln Pipeliner 200G)	11,055	0	172,101	346,444	0	44,722	93,261	0
Welder/Generator Truck Mount (Lincoln Classic 300G)	2,479	0	0	0	7,776	29,415	0	0

SUMMARY BY EQUIPMENT TYPE	Peak Month Activity (HP-HRS)	Equip HP-HRS per Year per Equipment (Refinement)						
	Refinement	2017	2018	2019	2020	2021	2022	2023
150TN Crane	0	139,047	0	71,724	0	29,695	0	0
Air Compressor (Ingersoll-Rand P250WDJ)	0	0	0	0	0	0	0	0
Asphalt Paver, 7 CY Hopper (Barber-Greene BG270B)	0	0	0	0	0	0	0	0
Backhoe (John Deere 710D)	51,708	200,486	122,511	778,854	816,887	287,636	520,224	274,134
Bulldozer (CAT D10R)	48,778	0	97,557	197,330	0	23,660	0	0
Compactor (CAT CB563C)	0	0	0	0	0	0	0	0
Concrete Paver - Bidwell (CAT SF-7400)	0	0	0	0	0	0	386689	420909
Concrete Saw (Unitec CSR150)	0	0	0	0	0	0	25219	27451
Dump Truck 13 CY	702,512	0	730847	3442213	1396159	308560	1507030	1640395
Excavator (CAT 330L)	206,064	0	220246	1004457	397368	90788	428924	466882
Flat Bed Truck (Freightliner FLD120SD)	0	0	0	0	0	0	0	0
Fork Lift (Manitou M430CP)	72,786	282209	172449	1096335	1149870	404883	732280	385878
Generator (CAT 3412TA)	7,051	27339	16706	106207	111394	39223	70940	37382
Hydraulic Concrete Breaking Machines	28,368	0	56736	114761	0	13760	0	0
Loader (CAT 988F)	351,745	0	375954	1714578	678296	154973	732160	796953
Motor Grader (CAT 14H)	0	0	0	0	0	0	0	0
Scraper (CAT 631E)	0	0	0	0	0	0	0	0
Sheep's Foot Compactor (CAT CB634C)	0	0	0	0	0	0	0	0
Transit Mixer Truck 10 CY	48,660	0	0	283495	201539	18955	217543	236795
Water Truck (CAT 766C)	196,902	763439	466514	2965831	3110655	1095299	1980982	1043886
Welder (Lincoln Pipeliner 200G)	0	67072	0	34597	0	14324	0	0
Welder/Generator Truck Mount (Lincoln Classic 300G)	0	0	0	0	0	0	0	0

	Total Max Monthly Equipment HP-HRS	Total Equip HP-HRS per Year						
		2017	2018	2019	2020	2021	2022	2023
TOTAL (EIR):	2,378,127	2,635,136	8,919,648	6,513,280	13,256,059	21,197,982	17,569,913	2,495,645
TOTAL (REFINEMENT ANALYSIS):	1,714,573	1,479,592	2,259,521	11,810,383	7,862,168	2,481,755	6,601,992	5,330,666

Note: Offroad heavy-duty diesel source constituted the majority of all criteria pollutants and greenhouse gas emissions in the Project EIR. Thus only activity associated with offroad heavy-duty diesel equipment is included in the calculations above.

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Refined Construction Schedule Worker Activity

Project Description	Activity Description	Equipment ID	MSC No. of Pieces	DAYS	START DATE	FINISH DATE
West Headhouse						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	27	498	1/2/2021	11/30/2022
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	498	1/2/2021	11/30/2022
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	3	498	1/2/2021	11/30/2022
General Activities	Material Testing (Owner)	Employee_Vehicles	3	498	1/2/2021	11/30/2022
General Activities	Verification Survey (Owner)	Employee_Vehicles	1	498	1/2/2021	11/30/2022
Demo & Site Prep	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	16	103	1/7/2021	5/31/2021
Demo & Site Prep	Building Demo	Employee_Vehicles	3	103	1/7/2021	5/31/2021
Concrete work	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	27	109	6/1/2021	10/31/2021
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	4	44	8/1/2021	9/30/2021
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	9	130	10/1/2021	3/31/2022
Interior Construction	Interior Construction	Employee_Vehicles	27	304	10/1/2021	11/30/2022
Interior Construction	Tenant Improvements	Employee_Vehicles	27	304	10/1/2021	11/30/2022
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	10	304	10/1/2021	11/30/2022
Punch List	Punch List	Employee_Vehicles	7	7	12/1/2022	12/10/2022
T2 Concourse/ East Headhouse						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	20	234	1/2/2021	11/25/2021
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	234	1/2/2021	11/25/2021
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	3	234	1/2/2021	11/25/2021
General Activities	Material Testing (Owner)	Employee_Vehicles	2	234	1/2/2021	11/25/2021
General Activities	Verification Survey (Owner)	Employee_Vehicles	1	234	1/2/2021	11/25/2021
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	7	42	1/28/2021	3/28/2021
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	12	88	3/29/2021	7/28/2021
Interior Construction	Interior Construction	Employee_Vehicles	20	174	3/29/2021	11/25/2021
Interior Construction	Tenant Improvements	Employee_Vehicles	20	174	3/29/2021	11/25/2021
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	12	174	3/29/2021	11/25/2021
Punch List	Punch List	Employee_Vehicles	7	19	11/26/2021	12/22/2021
T3 Concourse						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	13	510	9/15/2018	8/30/2020
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	510	9/15/2018	8/30/2020
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	2	510	9/15/2018	8/30/2020
General Activities	Material Testing (Owner)	Employee_Vehicles	3	510	9/15/2018	8/30/2020
General Activities	Verification Survey (Owner)	Employee_Vehicles	1	510	9/15/2018	8/30/2020
Demo & Site Prep	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	10	152	10/1/2018	4/30/2019
Demo & Site Prep	Building Demo	Employee_Vehicles	6	152	10/1/2018	4/30/2019
Concrete work	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	10	152	3/1/2019	9/30/2019
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	5	65	6/1/2019	8/31/2019
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	4	152	9/1/2019	3/31/2020
Interior Construction	Interior Construction	Employee_Vehicles	10	260	9/1/2019	8/30/2020
Interior Construction	Tenant Improvements	Employee_Vehicles	10	260	9/1/2019	8/30/2020

LAX T2/T3 Modernization Project, Addendum

Refined Construction Schedule Worker Activity

Project Description	Activity Description	Equipment ID	MSC No. of Pieces	DAYS	START DATE	FINISH DATE
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	6	260	9/1/2019	8/30/2020
Punch List	Punch List	Employee_Vehicles	6	10	9/1/2020	9/14/2020
T3 Satellite						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	12	498	1/2/2021	11/30/2022
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	498	1/2/2021	11/30/2022
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	3	498	1/2/2021	11/30/2022
General Activities	Material Testing (Owner)	Employee_Vehicles	3	498	1/2/2021	11/30/2022
General Activities	Verification Survey (Owner)	Employee_Vehicles	1	498	1/2/2021	11/30/2022
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	4	66	6/1/2021	8/31/2021
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	6	152	9/1/2021	3/31/2022
Interior Construction	Interior Construction	Employee_Vehicles	9	326	9/1/2021	11/30/2022
Interior Construction	Tenant Improvements	Employee_Vehicles	9	326	9/1/2021	11/30/2022
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	6	326	9/1/2021	11/30/2022
Punch List	Punch List	Employee_Vehicles	8	7	12/1/2022	12/10/2022
Central Headhouse / T2 Bus Gate						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	30	567	10/1/2018	12/1/2020
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	567	10/1/2018	12/1/2020
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	6	567	10/1/2018	12/1/2020
General Activities	Material Testing (Owner)	Employee_Vehicles	5	567	10/1/2018	12/1/2020
General Activities	Verification Survey (Owner)	Employee_Vehicles	3	567	10/1/2018	12/1/2020
Demo & Site Prep	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	25	152	10/1/2018	4/30/2019
Demo & Site Prep	Building Demo	Employee_Vehicles	8	152	10/1/2018	4/30/2019
Concrete work	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	25	152	3/1/2019	9/30/2019
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	10	65	6/1/2019	8/31/2019
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	15	152	9/1/2019	3/31/2020
Interior Construction	Interior Construction	Employee_Vehicles	28	327	9/1/2019	12/1/2020
Interior Construction	Tenant Improvements	Employee_Vehicles	28	327	9/1/2019	12/1/2020
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	15	327	9/1/2019	12/1/2020
Punch List	Punch List	Employee_Vehicles	10	7	12/2/2020	12/10/2020
T3 Airside Civil/Apron Work						
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	14	392	7/3/2019	12/31/2020
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	392	7/3/2019	12/31/2020
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	2	392	7/3/2019	12/31/2020
General Activities	Material Testing (Owner)	Employee_Vehicles	1	392	7/3/2019	12/31/2020
General Activities	Verification Survey (Owner)	Employee_Vehicles	1	392	7/3/2019	12/31/2020
Concrete work	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	50	162	4/2/2020	11/14/2020
Punch List	Punch List	Employee_Vehicles	4	23	12/1/2020	12/31/2020
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	3	269	6/21/2022	6/30/2023
General Activities						
General Activities	Dust Control (7 days / week)	Employee_Vehicles	0	269	6/21/2022	6/30/2023

LAX T2/T3 Modernization Project, Addendum

Refined Construction Schedule Worker Activity

Project Description	Activity Description	Equipment ID	MSC No. of Pieces	DAYS	START DATE	FINISH DATE
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	0	269	6/21/2022	6/30/2023
General Activities	Material Testing (Owner)	Employee_Vehicles	7	269	6/21/2022	6/30/2023
General Activities	Verification Survey (Owner)	Employee_Vehicles	0	269	6/21/2022	6/30/2023
Concrete work	Site Prep, Foundations, Footings & U/G	Employee_Vehicles	31	250	7/1/2022	6/15/2023
Punch List	Punch List	Employee_Vehicles	0	5	6/26/2023	6/30/2023
General Activities	Labor & Common Equipment (5 Day Week)	Employee_Vehicles	30	205	8/1/2016	5/12/2017
General Activities	Dust Control (7 days / week)	Employee_Vehicles	1	205	8/1/2016	5/12/2017
General Activities	Office Staff and Common Equip (5 Day week)	Employee_Vehicles	10	205	8/1/2016	5/12/2017
General Activities	Material Testing (Owner)	Employee_Vehicles	7	205	8/1/2016	5/12/2017
General Activities	Verification Survey (Owner)	Employee_Vehicles	4	205	8/1/2016	5/12/2017
Structural steel	Steel Erection & Building Enclosure	Employee_Vehicles	14	205	8/1/2016	5/12/2017
Building envelope	Mechanical, Electrical, Plumbing	Employee_Vehicles	5	205	8/1/2016	5/12/2017
Interior Construction	Interior Construction	Employee_Vehicles	30	205	8/1/2016	5/12/2017
Interior Construction	Tenant Improvements	Employee_Vehicles	30	205	8/1/2016	5/12/2017
Interior Construction	Mechanical, Electrical, Plumbing	Employee_Vehicles	20	205	8/1/2016	5/12/2017
Punch List	Punch List	Employee_Vehicles	9	205	8/1/2016	5/12/2017

SUMMARY BY EQUIPMENT TYPE

Employee_Vehicles

Max Employee Vehicles **Used** per Month
5,326

Peak Day = 232 worker vehicles

The peak day occurred in May of 2020

LAX T2/T3 Modernization Project, Addendum

Comparison of EIR Construction Schedule and Refined Construction Schedule Haul Truck Activity

	TERMINAL 3 CONCOURSE	NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Material Delivery	293	3/31/2021	5/14/2022	524	1.79
REFINEMENT	Material Delivery	391	3/1/2019	8/30/2020	462	1.18
EIR	Concrete Delivery	147	3/31/2021	10/21/2021	738	5.02
REFINEMENT	Concrete Delivery	152	3/1/2019	9/30/2019	578	3.80
EIR	Demolition Hauling	148	10/26/2020	5/19/2021	404	2.73
REFINEMENT	Demolition Hauling	152	10/1/2018	4/30/2019	821	5.40
	TERMINAL 3 SATELITE	NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Demolition Hauling	44	12/15/2022	2/14/2023	39	0.89
	TERMINAL 2.5 TICKETING	NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Material Delivery	733	3/1/2018	12/21/2020	1,675	2.29
REFINEMENT	Material Delivery	283	3/1/2019	3/31/2020	1,193	4.22
EIR	Concrete Delivery	87	3/1/2018	6/30/2018	1,788	20.55
REFINEMENT	Concrete Delivery	152	3/1/2019	9/30/2019	1,491	9.81
EIR	Demolition Hauling	72	11/22/2017	3/1/2018	1,033	14.35
REFINEMENT	Demolition Hauling	152	10/1/2018	4/30/2019	744	4.90
	AIRSIDE CIVIL / APRON WORK	NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Batch Plant Deliveries (Concrete)	126	1/10/2022	7/4/2022	19,907	157.99
REFINEMENT	Batch Plant Deliveries (Concrete)	75	8/1/2020	11/14/2020	10,086	134.48
EIR	Base Material Delivery	330	9/27/2020	1/2/2022	2,237	6.78
REFINEMENT	Base Material Delivery	66	5/1/2020	7/31/2020	1,133	17.17
EIR	Demolition Hauling	650	9/27/2020	3/26/2023	9,954	15.31
REFINEMENT	Demolition Hauling	21	4/2/2020	4/30/2020	5,043	240.14

LAX T2/T3 Modernization Project, Addendum

Comparison of EIR Construction Schedule and Refined Construction Schedule Haul Truck Activity

TERMINAL 2 CONCOURSE		NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Material Delivery	936	2/7/2019	9/8/2022	175	0.19
REFINEMENT	Material Delivery	216	1/28/2021	11/25/2021	57	0.26
EIR	Concrete Delivery	0			0	0.00
REFINEMENT	Concrete Delivery	88	3/29/2021	7/28/2021	71	0.80
EIR	Demolition Hauling	0			0	0.00
REFINEMENT	Demolition Hauling	42	1/28/2021	3/28/2021	7	0.16
TERMINAL 3.5 HEADHOUSE		NET HAULING DAYS	START DATE	FINISH DATE	DELIVERIES	DELIVERIES/DAY
EIR	Material Delivery	530	8/23/2021	9/1/2023	580	1.09
REFINEMENT	Material Delivery	392	6/1/2021	11/30/2022	151	0.39
EIR	Concrete Delivery	152	8/23/2021	3/22/2022	665	4.38
REFINEMENT	Concrete Delivery	109	6/1/2021	10/31/2021	189	1.74
EIR	Demolition Hauling	65	7/24/2021	10/23/2021	181	2.78
REFINEMENT	Demolition Hauling	103	1/7/2021	5/31/2021	166	1.61

Note: Any days in which major construction is occurring for the project component is considered a material delivery day, Concrete Work phases are concrete delivery days, and demolition phases are demolition hauling days.

MONTHLY HAUL TRUCK SUMMARY

Peak Month (EIR) = 4,303 Haul Truck Trips

Peak Month (Refinement Analysis) = 3,093 Haul Truck Trips

PEAK DAY EIR

181 trips

February-22

PEAK DAY REFINEMENT

134 trips

September-20