NOTICE OF PREPARATION

OF AN ENVIRONMENTAL IMPACT REPORT AND PUBLIC SCOPING MEETING

City Project No.:	Environmental Assessment No. EA 1248
Project Name:	Pacific Coast Commons Specific Plan
Project Applicant:	MAR CDC Holly, LLC
Project Address:	401-575 N. Pacific Coast Highway (PCH) and parking lot on 600-block of PCH
Public Comment Period:	May 26, 2020 through June 25, 2020
Public Scoping Meeting:	Wednesday, June 10, 2020 from 6:30 PM to 7:30 PM (to be held online)

Pursuant to Section 21165 of the California Public Resources Code and Section 15050 of the California Environmental Quality Act (CEQA) Guidelines, the City of El Segundo (City) is the Lead Agency for the preparation of an Environmental Impact Report (EIR) for the proposed Pacific Coast Commons Specific Plan Project (Specific Plan/Project). In accordance with CEQA Guidelines Section 15082, the City has prepared this Notice of Preparation (NOP) to provide responsible and trustee agencies, the Office of Planning and Research, and the County Clerk with sufficient information describing the Project and its potential environmental effects to enable the responsible agencies to make a meaningful response to this NOP.

The City is requesting your agency's specific and detailed input regarding the scope and content of the environmental information related to your agency's statutory responsibility that must be included in the Draft EIR. Pursuant to CEQA Guidelines Section 15083, this NOP also serves to facilitate consultation with any persons or organizations that may be concerned with the environmental effects of the Project. Additionally, this NOP serves as a notice for the public Scoping Meeting, which is held to expedite and facilitate the consultation process. Because the City has already determined that an EIR is required for the proposed Project, as permitted by CEQA Guidelines Section 15060(d), the City will not prepare an Initial Study, but instead will begin work directly on the Draft EIR.

Project Location. The Project site is located in the City of El Segundo and includes the addresses: 401 N. Pacific Coast Highway (Assessor Parcel Numbers [APNs] 4139-025-073, -074, -075, and -076), 475 N. Pacific Coast Highway (APN 4139-025-081), 525 N. Pacific Coast Highway (APN 4139-025-091), and the parking lot on 600-block of N. Pacific Coast Highway (APNs 4139-024-057 and -058). See Figure 1, Project Location.

Project Description Overview. The proposed Project involves the adoption and implementation of the Pacific Coast Commons Specific Plan, which includes approximately 6.3 acres of developed property. The Project would demolish existing structures, including a former restaurant with meeting/ballroom space, a rental car tenant, and the existing surface parking lots of the Fairfield Inn & Suites by Marriott and Aloft Hotel properties. The Specific Plan would allow for the development of up to 263 new housing units and 11,252 gross square feet of new commercial/retail uses, and associated parking. The Fairfield Inn & Suites and Aloft Hotel would not be redeveloped or expanded, but the zoning for the existing properties would be changed to reflect the current land uses. The Specific Plan's three development areas include: (1) Pacific Coast Commons – South, (2) Pacific Coast Commons – Fairfield Parking, and (3) Pacific Coast Commons – North. Figure 2, Master Site Plan, provides an

overview of the Specific Plan (Project) components. For more details see this NOP's Appendix A, Project Description Summary, available for electronic download on the City's website.

Potential Environmental Effects of the Project. The Project could have potentially significant environmental impacts to the following environmental topic areas: Aesthetics; Air Quality; Cultural Resources; Energy; Geology/Soils; Greenhouse Gas Emissions; Hazards and Hazardous Materials; Hydrology/Water Quality; Land Use and Planning; Noise; Population and Housing; Public Services and Recreation; Transportation; Tribal Cultural Resources; and Utilities/Service Systems. Because of the existing condition of the Project site, which is fully developed and located in an urbanized setting, implementation of the Specific Plan is not expected to result in any significant impacts to: Agriculture and Forestry Resources; Biological Resources; Mineral Resources; and Wildfire. The City is proposing to "scope out" these four topics from the Draft EIR without further study, as summarized in this NOP's Appendix B, Probable Environmental Effects of the Project.

This NOP, including Appendices A and B, are available for electronic download on the City's website at: http://www.elsegundo.org/government/departments/planning-and-building-safety-department/planning-division/active-projects or https://bit.ly/COESACTIVEPROJECTS.

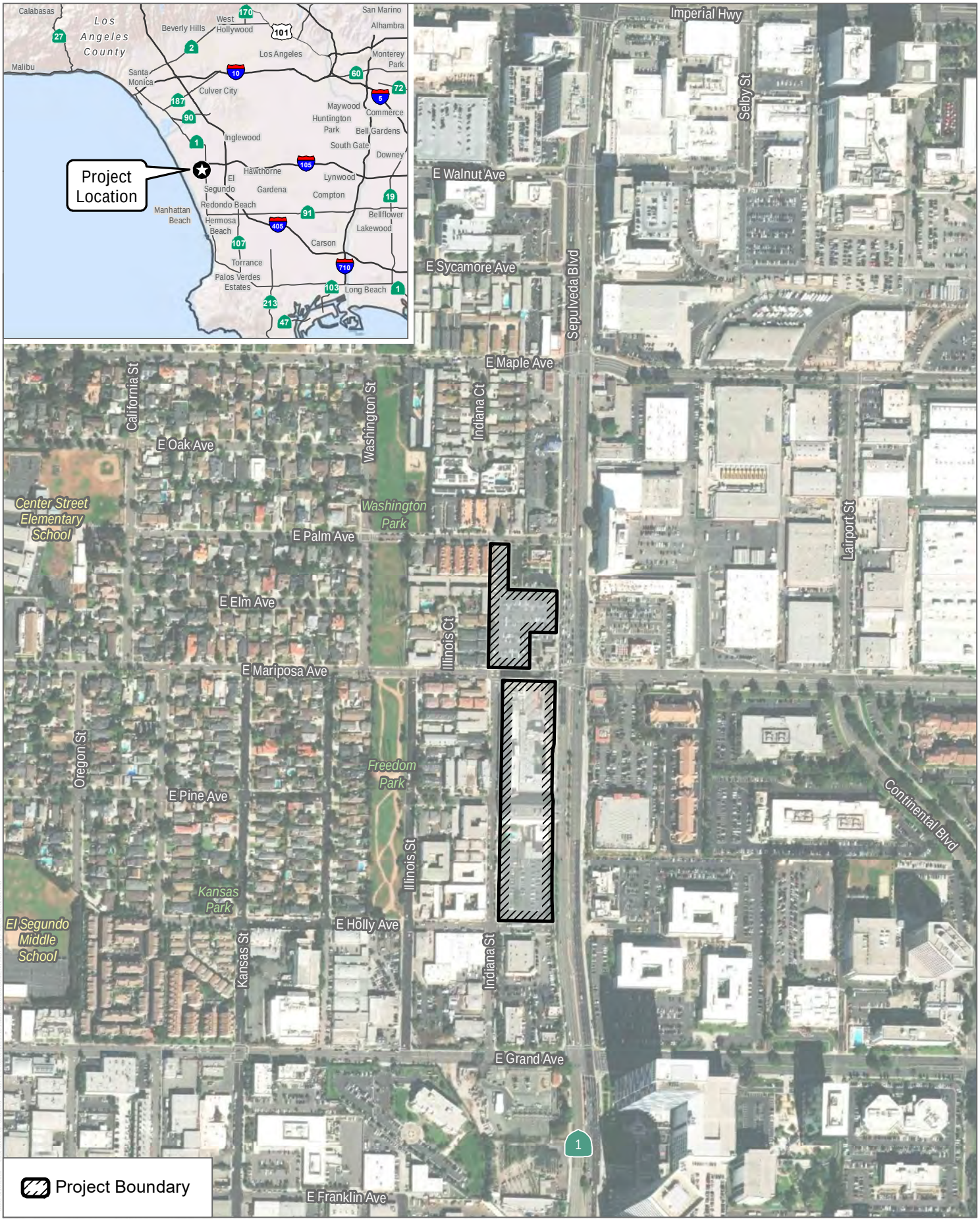
Public Scoping Meeting. Rather than conducting an in-person meeting, the Governor's Executive Order N-25-20 allows local governments to hold meetings via teleconferencing while still meeting state transparency requirements. Therefore, the Project's Scoping Meeting will be held online, through a webinar type format. The Scoping Meeting will involve a presentation about the proposed Project and the environmental review process and schedule. The purpose of the meeting is to facilitate the receipt of written comments about the scope and content of the environmental analysis to be addressed in the Draft EIR. The Scoping Meeting is for information-gathering, is not a public hearing, and no public testimony will be taken. No decisions about the Project will be made at the Scoping Meeting. A separate public hearing for entitlement requests will be scheduled after the completion of the Draft EIR. The date, time, and website of the Project's Scoping Meeting are as follows:

Date and Time:	Wednesday, June 10, 2020 from 6:30 PM to 7:30 PM
	Scoping Meeting Log-In: Go to the City's website 5-10 minutes before the Scoping Meeting is scheduled to begin, and click the either of the links provided to participate in the Scoping Meeting. On June 10th, visit: http://www.elsegundo.org/government/departments/planning-and-building-safety-department/planning-division/active-projects or https://bit.ly/COESACTIVEPROJECTS.

Submitting Comments. The City will consider all written comments regarding the potential environmental effects of the Project received during the NOP public review period. All written comments received will be reviewed and considered by the City as part of the environmental analysis of the proposed Project and will become a part of the public record for the Draft EIR. Written comments will be accepted online during the Scoping Meeting, as well as via email, and/or via mail, and must be received by the City by **5:00 P.M., Thursday, June 25, 2020**. Please direct your written comments to Paul Samaras, City of El Segundo, Planning and Building Safety Department, 350 Main Street, El Segundo, CA 90245, or email psamaras@e segundo.org.

Paul Samaras, AICP
Principal Planner

5/20/20
Date



SOURCE: Esri and Digital Globe 2019; Open Street Map 2019

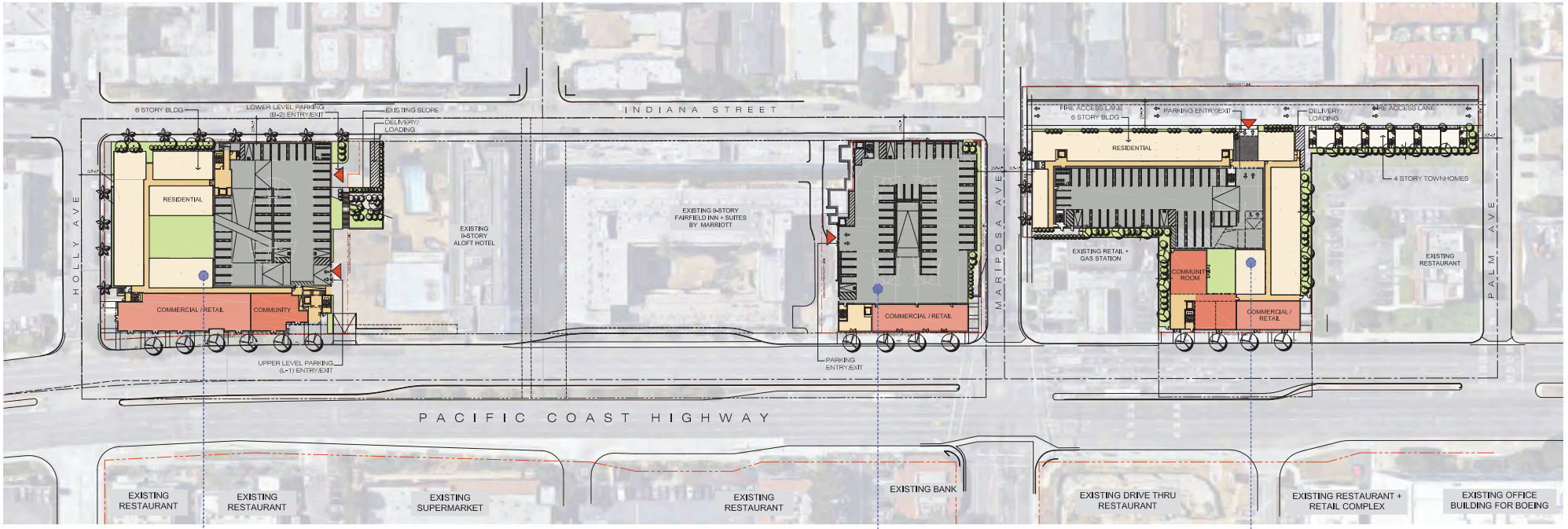
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FIGURE 1

Regional Location and Vicinity Map

Pacific Coast Commons Specific Plan EIR Project



SOURCE: Withee Malcolm Architects 2020

FIGURE 2

Master Site Plan

Pacific Coast Commons Specific Plan EIR Project

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Appendix A

Project Description Summary

Project Location

Figure 1, Regional Location and Vicinity Map, provides the Project boundaries in the context of the surrounding community and jurisdictions. The proposed Project site is located in the City of El Segundo (City) within the County of Los Angeles, approximately 20 miles southwest from downtown Los Angeles. The Los Angeles International Airport (LAX) is located to the north of the City; the Los Angeles County community of Del Aire and the City of Hawthorne are located to the east, the City of Manhattan Beach is located to the south; and the Hyperion Sewage Treatment Plant, Dockweiler Beach, and the Pacific Ocean is located to the west of the City. Specifically, the Project site is bound by Palm Avenue on the north, Pacific Coast Highway (PCH) on the east, Holly Avenue on the south, and Indiana Street on the west. Mariposa Avenue bisects the Project site. Regional access is via Interstate (I) 105 (Imperial Highway) to PCH or via I-405 (San Diego Freeway) via El Segundo Boulevard to PCH.

Project Description

The proposed Pacific Coast Commons Specific Plan (Project) includes approximately 6.3 acres (post-dedication) of developed property located along PCH. The Project site currently has a General Plan land use designation of "General Commercial" for the property south of Mariposa Avenue and "Parking" for the property north of Mariposa Avenue. The entire area would receive a new General Plan Land Use Designation and zoning of Pacific Coast Commons Specific Plan. The Project would demolish existing structures, including a former restaurant with meeting/ballroom space, a rental car tenant, and the existing surface parking lots of the Fairfield Inn & Suites by Marriott and Aloft Hotel properties, and would allow for the development of up to 263 new housing units and 11,252 gross square feet of new commercial/retail uses, and associated parking.

Figure 2, Master Site Plan, provides an overview of the Project components and Figure 3, Overall Elevations provides the proposed building elevations in the context of nearby existing buildings. As shown on Figure 2, the existing Fairfield Inn & Suites and Aloft Hotel would not be redeveloped or expanded, but the zoning for the existing properties would be changed through the Specific Plan to reflect the current land uses. The Specific Plan's three development areas include: Pacific Coast Commons – South (PCC – South); Pacific Coast Commons – Fairfield Parking (PCC - Fairfield Parking); and Pacific Coast Commons – North (PCC – North).

- **PCC – South**: This area is currently developed with surface parking for the Aloft Hotel and W XYZ Lounge. Development of the PCC-South requires demolition of the existing surface parking, subterranean utilities, and landscaping located adjacent to the Aloft Hotel. The Project would include a new 6-story building (5 levels of residential over 1 level of retail/commercial), with an 8-story parking garage (3 levels subterranean and 5 levels above ground) located internal to the site. Ground-level uses fronting PCH would be commercial/retail and community space; ground-level uses fronting Holly Avenue would be residential uses; and ground-level uses fronting Indiana Street would be residential and parking garage. PCC – South would include approximately 5,760 gross square feet of commercial space, 120 residential units, and 336 parking spaces for the Aloft Hotel, residential, and commercial uses in the new parking structure. The parking structure would be accessed from both Indiana Street and PCH with residents primarily coming in from Indiana Street and Aloft Hotel and retail patrons accessing from PCH. The building height, as seen from PCH, to the top of the parapet would be 72 feet. The building height, as seen from Indiana Street, to the top of the roof projection would be 76 feet. Figure 4, PCC – South Cross-Section, provides the proposed elevations and arrangement of land uses in this area.

- **PCC – Fairfield Parking**: This area is currently developed with the old Carrasco's Restaurant (formerly the Hacienda Restaurant), which is no longer in operation, a rental car business, and ballroom and meeting space area (for the Fairfield Inn & Suites by Marriott), all of which would be demolished. The Project would include approximately 3,270 gross square feet of 1 level of commercial/retail along PCH and a 215-space parking structure located above and to the rear of the commercial space, with ingress/egress to the parking structure from PCH. Commercial uses would share this parking with hotel guests. The building would include 5 levels of parking and would be approximately 60 feet to the top of the roof. Ground-level uses fronting PCH would include commercial/retail and uses fronting Mariposa Avenue and Indiana Street would include parking garage. No subterranean levels are proposed. Figure 5, PCC – Fairfield Parking Cross-Section, provides the proposed elevations and arrangement of land uses in this area.

- **PCC – North**: This area is currently developed with surface parking for the Fairfield Inn & Suites, which would be demolished. The Project would include 6-levels of residential/commercial mixed-use with approximately 2,220 gross square feet of ground-level commercial that faces PCH. A 6-level parking garage with 252 parking spaces would be surrounded by residential development on three sides. A new fire lane/access drive would span the length of the PCC – North between Palm Avenue and Mariposa Avenue, providing access to the parking garage and residential uses. The main building would include 137 for-rent residential units and an additional 6 for-sale townhomes would be located along the proposed fire lane/access drive. The adjacent fast-food restaurant and gas station are not a part of the Project site and would not be altered by Project implementation. The building height, as seen from PCH, to the top of the parapet would be 72 feet. The building height, as seen from Indiana Street, to the top of the roof projection would be 80 feet. No subterranean levels are proposed. Figure 6, PCC – North Cross-Section, provides the proposed elevations and arrangement of land uses in this area.

The proposed Project would replace the existing General Commercial (C-3) and Parking (P) zones with the proposed Specific Plan, thereby enabling the proposed future development within the Specific Plan area, as summarized above. The Specific Plan would include 5 land use districts: PCC Mixed-Use 1 in the PCC – South; PCC Commercial-1 for the Aloft Hotel; PCC Commercial-2 for the Fairfield Inn & Suites; PCC Commercial-3 for the PCC – Fairfield Parking; and PCC Mixed-Use 2 for the PCC – North. Each of the proposed land use districts are shown in Figure 7, Proposed Land Use Plan.

New sidewalks would be built, allowing for outdoor restaurant seating and curb-edge treatments to separate the sidewalks from the traffic along PCH to create a safer, more comfortable pedestrian zone. Off-site components of the Project include: (1) Right-turn pocket from eastbound Mariposa Avenue onto the PCH; (2) curb/gutter, landscaping, and sidewalk/pedestrian improvements along Holly Avenue, Indiana Street, Mariposa Avenue, Palm Avenue, and PCH; (3) and utility connections to existing utilities in surrounding roadways.

Requested Approvals/Permits. The following is a summary of discretionary actions the City will consider:

- Adoption of the Pacific Coast Commons Specific Plan, SP No. 19-01;

- Certification of Pacific Coast Commons Specific Plan Final Environmental Impact Report (Final EIR), Environmental Assessment No. EA 1248;

- General Plan Amendment (No. GPA 19-01) to change the Land Use Designation from "General Commercial" and "Parking" to "Pacific Coast Commons Specific Plan (PCCSP)" with an accompanying Land Use map change;

- Zone Text Amendment (No. ZTA 19-08) to add a new El Segundo Municipal Code (ESMC) §15-3-2(A)(11) "Pacific Coast Commons Specific Plan (PCCSP)";

- Zone Change (No. ZC 19-01) to rezone the property from General Commercial (C-3) and Parking (P) to Pacific Coast Commons Specific Plan (PCCSP) and an accompanying Zoning map change;

- Development Agreement (No. DA 19-02) between the City of El Segundo and BRE El Segundo Property Owner A LLC, BRE El Segundo Property Owner B LLC, and BRE El Segundo Parking LLC;

- Vesting Tentative Tract Map (VTTM 82806) (Subdivision No. SUB 19-03) for merger, subdivision and residential/commercial condominium purposes reconfiguring 3 parcels (comprised of 12 existing lots) on the block bounded by Pacific Coast Highway, Mariposa Avenue, Indiana Street and Holly Avenue and 3 parcels (comprised of portions of 4 existing lots) on the block north of Mariposa Avenue and south of Palm Avenue in the Specific Plan Area into 6 new individual lots. Additionally, the Vesting Tentative Tract Map No. 82806 would allow: a) 1 residential ground and airspace parcel for 120 apartments and a maximum of 10 airspace parcels for commercial condominiums on Lot 1; b) a ground and airspace parcel for the parking structure and up to a maximum of 10 airspace parcels for commercial condominiums on Lot 4; and c) 1 residential ground and airspace parcel for 137 apartments and up to a maximum of 20 airspace parcels for commercial condominiums on Lot 5; and e) 6 residential condominiums (townhomes) on Lot 6;

- Site Plan Review (No. SPR 19-01) to allow the site plan and architectural design to construct the mixed-use commercial and residential development for the 263 residential units, 11,252 gross square feet of new commercial development, and 3 parking structures;

- Modification of Resolution Nos. 2759 and 2760 to rescind the previous approvals SUB No. 14-05, Lot-Tie Covenant No. 14-03, Off-site Parking Covenant Nos. MISC 14-03 and 14-06, leaving in place CUP No. 14-01 for the Fairfield Inn and Suites Hotel and CUP No. 14-02 for the Aloft Hotel, along with alcohol service at both hotels with modifications to the conditions of approval accordingly;

- Parking Demand Study and Shared Parking Analysis to establish the parking requirements for the proposed commercial and residential development combined with the existing hotel development;

- Shared Parking Agreement in conjunction with the Parking Demand Study and Shared Parking Analysis, to replace the previous approval of Off-Site Parking Covenant Nos. MISC 14-03 and MISC 14-06;

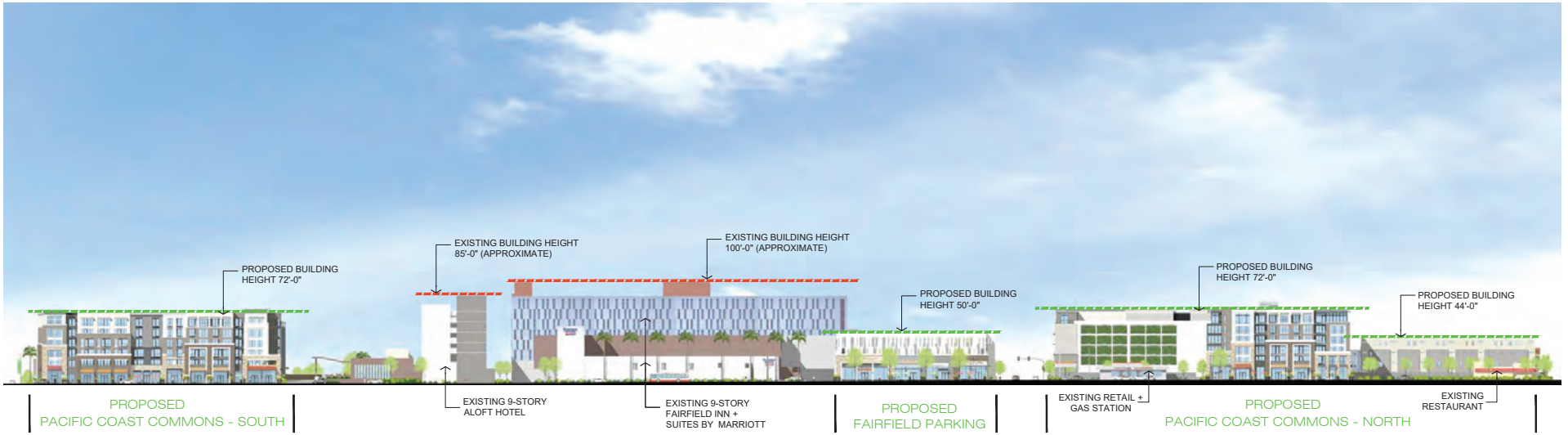
- Reciprocal Access Agreements for driveways and drive aisles accessing multiple parcels; and

- Street dedication waiver requests for a portion of the dedication requirements for Mariposa Avenue and Indiana Street. Request to provide street dedication land for Holly Avenue and Palm Avenue through irrevocable offers to dedicate land.

The following is a list of other responsible agencies and their discretionary authority over the proposed Project:

California Department of Transportation (Caltrans)

- Encroachment Permit
- Approval of Traffic Control Plan compliant with the California Manual Uniform Traffic-Control Devices
- Transportation Permit for oversized/overweight loads



OVERALL ELEVATION ON PACIFIC COAST HIGHWAY

scale: 1" = 50'-0"
0 50 100 150 200

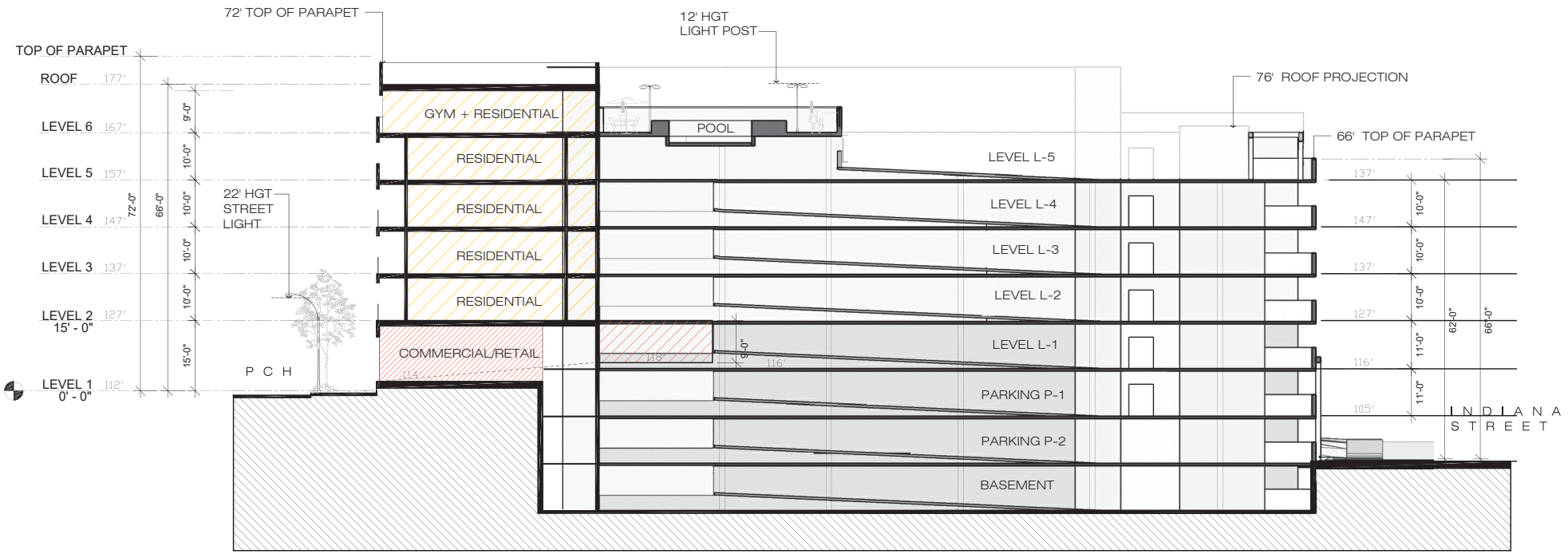
SOURCE: Withee Malcolm Architects 2020

FIGURE 3

Overall Elevations

Pacific Coast Commons Specific Plan EIR Project

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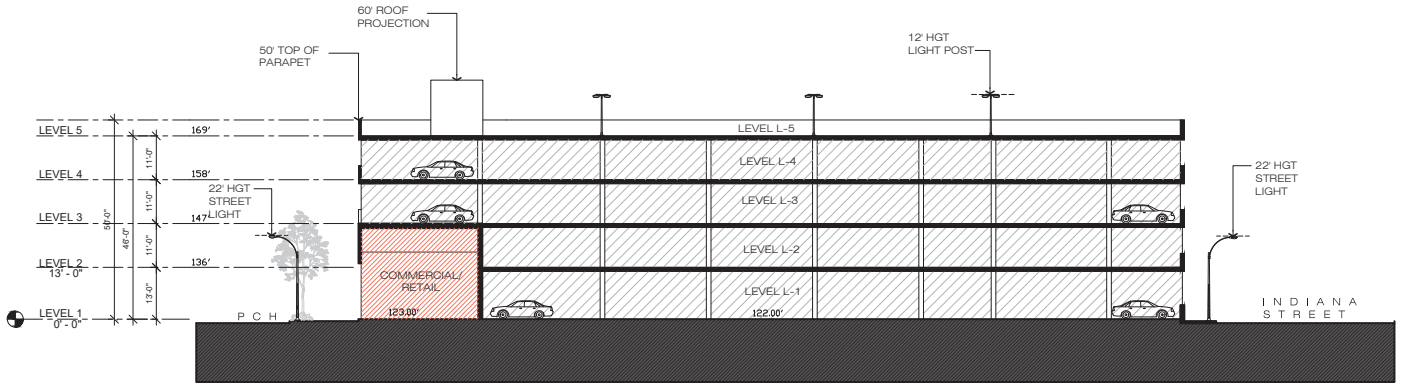
SOURCE: Withee Malcolm Architects 2020

FIGURE 4

PCC – South Cross-Section

Pacific Coast Commons Specific Plan EIR Project

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SECTION - A

1" = 20'-0"

0 20 40 60

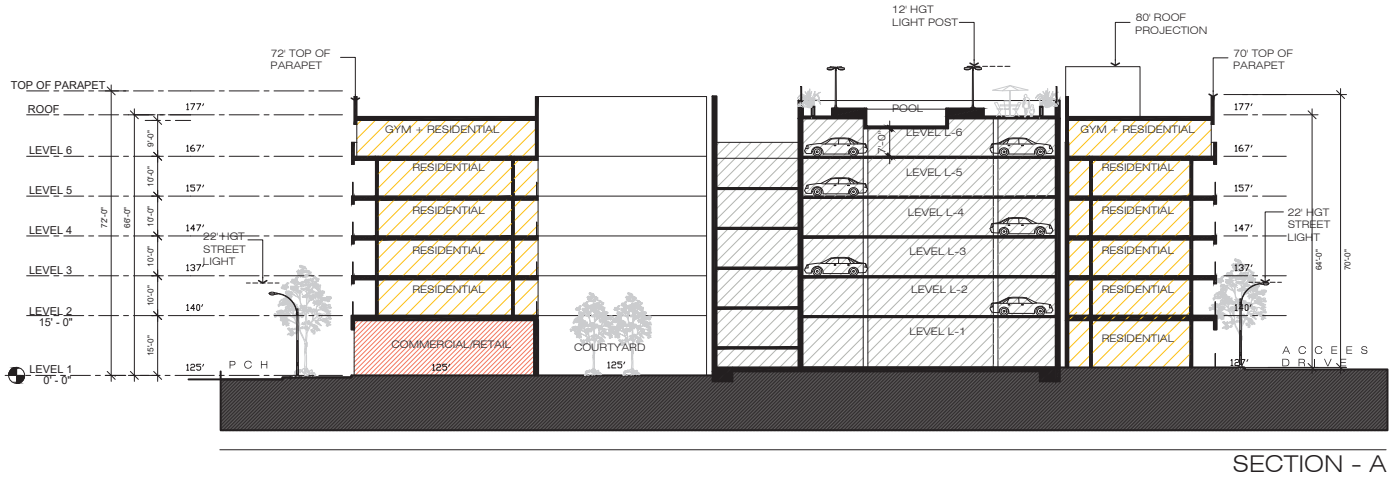
SOURCE: Withee Malcolm Architects 2020

FIGURE 5

PCC – Fairfield Parking Cross-Section

Pacific Coast Commons Specific Plan EIR Project

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SECTION - A

1" = 20'-0"

0 20 40 60

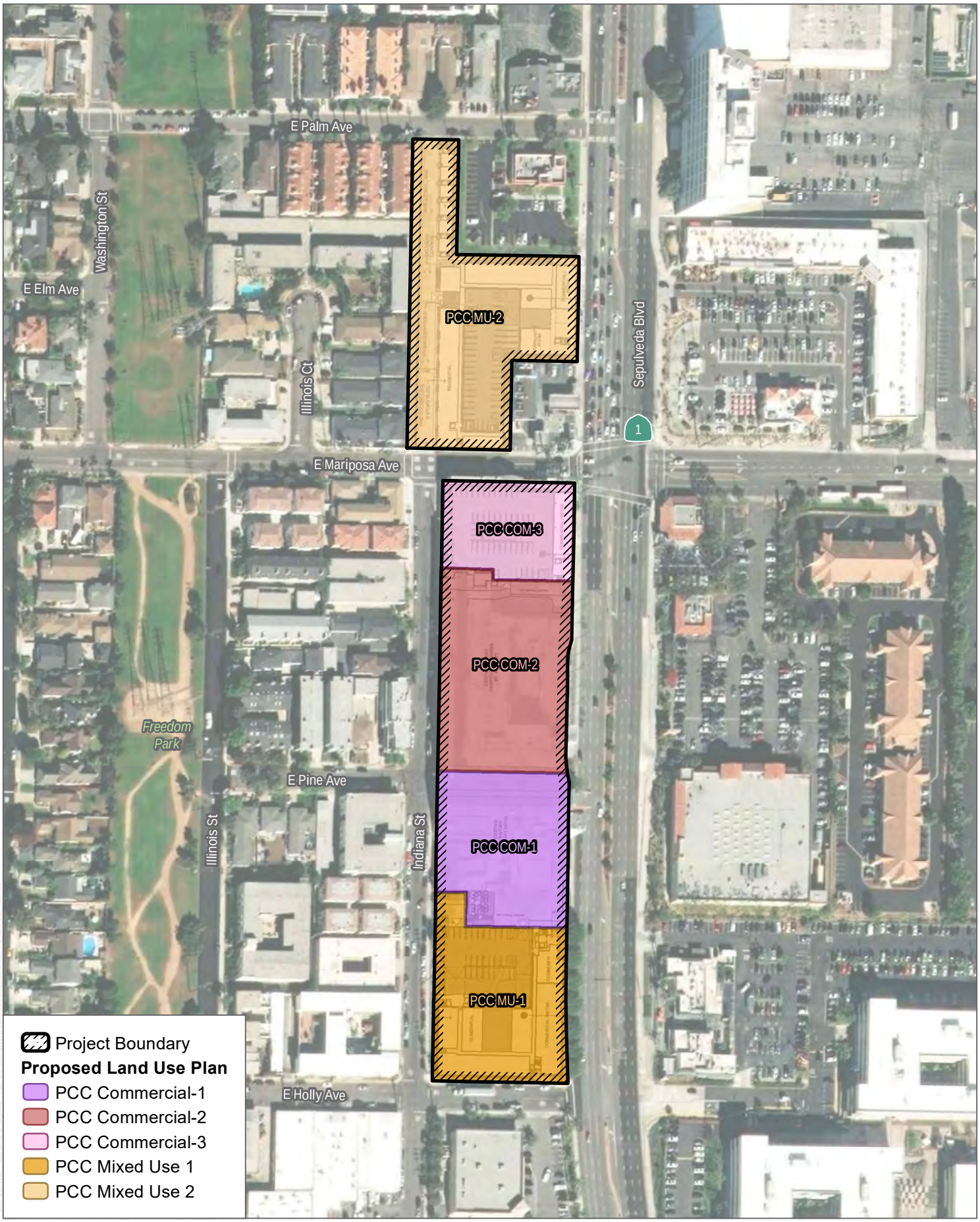
SOURCE: Withee Malcolm Architects 2020

FIGURE 6

PCC – North Cross-Section

Pacific Coast Commons Specific Plan EIR Project

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SOURCE: Esri and Digital Globe 2019; Open Street Map 2019

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0 100 200 Feet

FIGURE 7

Proposed Land Use Plan

Pacific Coast Commons Specific Plan EIR Project

Appendix B

Probable Environmental Effects of the Project

Probable Environmental Effects of the Pacific Coast Commons Specific Plan Project

CEQA Topic	Probable Environmental Effects	Discussion in EIR
Aesthetics	The Project site is visible from surrounding land uses and roadways and the proposed Project would increase the development density and height, and implementation of the Project may have an adverse effect on a scenic vista or conflict with regulations related to scenic quality.	Potential for significant impacts to be analyzed in the Draft EIR
Agriculture and Forestry Resources	The Project site is located in an urban area on a site that is fully developed with buildings and asphalt paving and is included in the General Commercial (C-3) and Parking (P) zones. There are no existing agriculture or forestry activities on the site. No readily available opportunities for agricultural or forestry operations exist on site or in the surrounding area. According to the California Department of Conservation's California Important Farmland Finder, most of Los Angeles County, including the City of El Segundo, is not mapped as part of the state's Farmland Mapping and Monitoring Program; thus, the Project site does not contain Prime Farmland, Unique Farmland, or Farmland of State Importance (collectively "Important Farmland")[1], nor does it contain any parcels under a Williamson Act contract[2]. Additionally, the Project site nor the surrounding area contain forestland or timberland. Therefore, impacts associated with agricultural and forestry resources would not occur and will not require further evaluation in the Draft EIR.	No potential for significant impacts to Agriculture and Forestry Resources. This will not be further analyzed in the Draft EIR.
Air Quality	The Project has the potential to conflict with the Air Quality management plan, to result in cumulatively considerable increases of criteria pollutants, and to expose sensitive receptors to substantial pollutant concentrations due to short-term construction activities and long-term operations.	Potential for significant impacts to be analyzed in the Draft EIR
Biological Resources	Under the existing conditions, the Project site is almost entirely developed with paved surfaces and buildings. A limited amount of landscaped areas is located within the Project site and along the public rights-of-way, consisting of small areas of ornamental trees, shrubs, and turf. This vegetation is ornamental in nature, entirely surrounded by urban development, and does not form a cohesive plant community that would provide quality suitable habitat for candidate, sensitive or special status wildlife species, or would support wildlife movement. According to the City's General Plan, the native vegetative cover throughout the City has been displaced by urban structures, and the primary vegetation now consists of domesticated species, including lawn grasses, ground covers, shrubs, and trees, planted for their ornamental qualities.[3] No wetlands or other jurisdiction waters are within the Project site.[4] Further, any development activities conducted	No potential for significant impacts to Biological Resources. This will not be further analyzed in the Draft EIR.

1 DOC (Department of Conservation). 2020. "California Important Farmland Finder." Accessed April 22, 2020. https://maps.conservation.ca.gov/dlrp/ciff/.

2 DOC. 2018. "The Williamson Act Status Report 2016-17." Accessed April 22, 2020. Released 2018. https://www.conservation.ca.gov/dlrp/wa/Documents/stats_reports/2018%20WA%20Status%20Report.pdf.

3 City of El Segundo. 1992. Conservation Element of the El Segundo General Plan. Adopted 1992.

4 USFWS (United States Fish and Wildlife Service). 2020. National Wetlands Inventory, Wetlands Mapper, Search by Address. Accessed April 22, 2020. http://www.fws.gov/wetlands/Data/Mapper.html.

	pursuant to the Specific Plan would be required to comply with all applicable requirements set forth by the City, including the City's street tree regulations.[5] All development activities are subject to the requirement to protect nesting birds, in compliance with the Migratory Bird Treaty Act, which prohibits the accidental or "incidental" taking or killing of migratory birds.[6] Therefore, impacts associated with biological resources would not occur and will not require further evaluation in the Draft EIR.	
Cultural Resources	The Project requires earthwork and excavations into native soils, which has the potential to cause a substantial adverse change in an archaeological resource. The Project requires demolition of existing buildings, which has the potential to result in a substantial adverse change to a historical resource.	Potential for significant impacts to be analyzed in the Draft EIR
Energy	The Project would comply with all applicable building code requirements and is not anticipated to result in potential wasteful, inefficient, or unnecessary consumption of energy resources, during construction or operations, or obstruct a local plan for renewable energy or energy efficiency. However, an evaluation of the proposed Project's compliance with state and local plans for renewable energy or energy efficiencies is required.	No significant impacts are anticipated; however, energy impacts will be analyzed in the Draft EIR.
Geology and Soils	The Project site is within 10 miles of the Newport-Inglewood, Palos Verdes, Puente Hills, and Santa Monica faults and would be subject to periodic groundshaking. The site has the potential for collapsible and/or unsuitable soils on-site soils. The site is not within a State designated liquefaction or landslide zone. The Project requires earthwork and excavations into native soils, which has the potential to cause a substantial adverse change in a paleontological resource.	Potential for significant impacts to be analyzed in the Draft EIR
Greenhouse Gas Emissions	The Project has the potential to generate a significant amount of greenhouse gas emissions and/or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases due to increases in construction activities, vehicle trips, and electrical/gas/energy use.	Potential for significant impacts to be analyzed in the Draft EIR
Hazards and Hazardous Materials	The Project has the potential to create a significant hazard through the routine transport and use of hazardous materials and through reasonably foreseeable upset and accident conditions involving the release of hazardous materials due to demolition of existing structures and construction. The Project's proposed land uses are not anticipated to emit hazardous emissions or handle acutely hazardous materials. The Project site is not within an airport land use plan but is located approximately 0.7-mile from the nearest runway at LAX.	Potential for significant impacts to be analyzed in the Draft EIR
Hydrology and Water Quality	The Project site is located in an urban area on a site that is fully developed with buildings and asphalt paving; therefore, Project implementation would not substantially alter the existing drainage pattern of the site. The Project would comply with all regulations for water quality and low impact development. Although the coastal portion of the City is identified by the State as tsunami hazard areas, it does not include the Project site.	Potential for significant impacts to be analyzed in the Draft EIR
Land Use and	The Project site involves redevelopment of existing properties and	Potential for significant

[5] El Segundo Municipal Code Section 9-3, Street Trees.
[6] 16 United States Code (U.S.C) 703-712

Planning	would not divide a community; however, the Project does require various entitlements that have the potential to conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.	impacts to be analyzed in the Draft EIR
Mineral Resources	There are no oil wells or oil/mineral extraction activities on the Project site.[7] Current on-site land uses do not allow for oil/mineral extraction. According to the Department of Conservation's Mineral Lands Classification map, the City is within the Mineral Resources Zone-3, which is characterized as areas containing mineral deposits of significance of which cannot be evaluated from available data.[8] Ordinarily, classification of a mineral deposit as MRZ-2a or MRZ-2b by the State Geologist will constitute adequate evidence that an area contains significant mineral deposit; thus, the Project would not result in the loss of mineral resources of known importance to the state.[9] Although the El Segundo Oil Field underlies the City, production has declined since 1967 and only five wells continue to produce oil resources.[10]. Therefore, the Project is not expected to result in the loss of availability of a locally-important mineral resource recovery site delineated on the local general plan or other land use plan. Thus, impacts associated with mineral resources would not occur and will not require further evaluation in the Draft EIR.	No potential for significant impacts to Mineral Resources. This will not be further analyzed in the Draft EIR.
Noise	The Project has the potential to result in substantial temporary or permanent increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance and result in excessive groundborne vibration through construction and operation of the Project.	Potential for significant impacts to be analyzed in the Draft EIR
Population and Housing	The Project would allow for the development of 263 new housing units and 11,252 gross square feet of commercial/retail uses, which could induce substantial unplanned population growth either directly or indirectly.	Potential for significant impacts to be analyzed in the Draft EIR
Public Services	The Project would increase the demand for public services, which could result in substantial adverse physical impacts associated with 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 public services.	Potential for significant impacts to be analyzed in the Draft EIR
Recreation	The Project would increase the local population, which could increase the use of parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated or require the expansion of recreational facilities.	Potential for significant impacts to be analyzed in the Draft EIR
Transportation	The Project would generate traffic from the increased local population, which could conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle,	Potential for significant impacts to be analyzed in the Draft EIR

7 CalGEM (Department of Conservation, Geologic Energy Management Division). 2020. "Well Finder" Accessed April 22, 2020. https://maps.conservation.ca.gov/doggr/wellfinder/#/-118.39750/33.92133/17.

8 DOC. 1979. "Generalized Aggregate Resources Classification Map, Special Report 143 Plate 2.1." 1979. ftp://ftp.consrv.ca.gov/pub/dmg/pubs/sr/SR_143/PartII/Plate_2-1.pdf

9 DOC. 2002. "Guidelines for Classification and Designation of Mineral Lands." Accessed April 22, 2020. https://www.conservation.ca.gov/smgb/Guidelines/Documents/ClassDesig.pdf.

10 City of El Segundo. 1992. Conservation Element of the El Segundo General Plan. Adopted 1992.

	and pedestrian facilities, could conflict or be inconsistent with CEQA Guidelines section 15064.3(b), and could increase hazards at intersections.	
Tribal Cultural Resources	The Project requires earthwork and excavations into native soils, which has the potential to cause a substantial adverse change in the significance of a tribal cultural resource.	Potential for significant impacts to be analyzed in the Draft EIR
Utilities and Service Systems	The Project would increase the density of the property beyond existing conditions, which could result in the construction of new or expanded water, wastewater, storm water drainage, electric power, natural gas, or telecommunications facilities. The Project could affect the capacity of the wastewater treatment provider, generate solid waste in excess of the capacity of local infrastructure, or result in insufficient water supplies to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years.	Potential for significant impacts to be analyzed in the Draft EIR
Wildfire	The Project site is in a highly urbanized area and is not within a Very High Fire Hazard Severity Zone and would not exacerbate or expose people or structures to wildfire risks or substantially impair an adopted emergency response plan. Based on the CAL FIRE's Fire Hazard Severity Zones maps[11], the entire City, including the Project site, is not located in or near state responsibility areas or lands classified as Very High Fire Hazard Severity Zones. Therefore, impacts associated with wildland fire would not occur and will not require further evaluation in the EIR.	No potential for significant impacts to Wildfire. This will not be further analyzed in the Draft EIR.

[11] CAL FIRE. 2020 "FHSZ Viewer." Accessed April 22, 2020. http://egis.fire.ca.gov/FHSZ/.

Appendix A-2

Notice of Preparation Comment Letters

STATE OF CALIFORNIA Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

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May 27, 2020

Paul Samaras
City of El Segundo
350 Main Street
El Segundo, CA 90245

Re: 2020050508, Pacific Coast Commons Specific Plan Project, Los Angeles County

Dear Mr. Samaras:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Staff Services Analyst

cc: State Clearinghouse

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Making Conservation a California Way of Life.

June 24, 2020

Paul Samaras
City of El Segundo
350 Main Street
El Segundo, California 90245

RE: Pacific Coast Commons Specific Plan – Notice of Preparation (NOP)
SCH# 2020050508
GTS# 07-LA-2020-03270
Vic. LA-1 PM 25.455
Vic. LA-105 PM 00.474

Dear Paul Samaras,

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed Pacific Coast Commons Specific Plan (Project) includes approximately 6.3 acres (post-dedication) of developed property located along Pacific Coast Highway. The entire area would receive a new General Plan Land Use Designation and zoning of Pacific Coast Commons Specific Plan. The Project would demolish existing structures, including a former restaurant with meeting/ballroom space, a rental car tenant, and the existing surface parking lots of the Fairfield Inn & Suites by Marriott and Aloft Hotel properties, and would allow for the development of up to 263 new housing units and approximately 11,250 gross square feet of new commercial/retail uses, with approximately 923 motor vehicle parking spaces.

The nearest State facilities to the proposed project are SR 1 and I-105. After reviewing the NOP, Caltrans has the following comments:

Caltrans acknowledges and supports infill development that replaces surface parking lots and creates active street frontages, as the Project proposes to do. However, due to the amount of parking, the Pacific Coast Commons Specific Plan is still designed in a way that induces demand for many additional vehicle trips. This demand should be addressed with appropriate design and management principles. Caltrans supports reducing the amount of parking whenever possible. Research on parking suggests that abundant car parking enables and encourages driving. Research looking at the relationship between land-use, parking, and transportation indicates that the amount of car parking supplied can undermine a project's ability to encourage public transit and active modes of transportation. This project is only .5 miles from the Mariposa Green Line Station and all effort should be made to improve upon this connection to the greater Los Angeles

transit network, which will soon include the Crenshaw/LAX transit corridor. For any project to better promote public transit and reduce vehicle miles traveled (VMT), we recommend the implementation of Transportation Demand Management (TDM) strategies as an alternative to building an excessive amount of parking.

Caltrans concurs with the submitted NOP that a Draft EIR should be prepared for this proposed project. The following should be considered or identified during its preparation:

1. Which bus stop improvements along Mariposa Avenue and PCH will be included with the sidewalk/pedestrian improvements.

2. Any setbacks or accommodation made regarding bicycle facilities proposed in the South Bay Bicycle Master Plan. Including the addition of buffered Class II bike lanes or Class IV protected bikeways on Pacific Coast Highway, as this route is part of the legally designated "Pacific Coast Bike Route".

3. Where the bicycle parking required by the El Segundo Municipal Code will be located.

4. The number of long-term, short-term, and cargo bike parking spaces to be provided.

5. How Pacific Coast Commons will be accessed by bicyclists and pedestrians and how they will be able to access nearby destinations, such as restaurants and retail, without having to operate a motor vehicle. This multimodal analysis may be required to better understand new pedestrian, bicycle, and transit movement related to the development.

6. How all ingress/egress driveways shall be designed to be pedestrian and bicycle friendly.

7. As required by SB 743, VMT is the standard transportation analysis metric in CEQA for land use projects after the July 1, 2020 statewide implementation date. The City of El Segundo, as the lead agency, has discretion to develop and adopt its own thresholds of significance or to use those recommended by the Governor's Office of Planning and Research.

8. Intersection Control Evaluation (ICE) is required when there would be any physical changes such as addition of a through lane, turning lane, lane reconfiguration, widening, etc. or any operational changes such as altering traffic control or adding, removing, or modifying a traffic signal, etc. to Caltrans intersections.

As noted on page A-5, a Caltrans Encroachment Permit may be required. Please reference the following right-of-way maps when applying: P23579-1, P23579-3.

Additionally, transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. We recommend large size truck trips be limited to off-peak commute periods.

If you have any questions, please contact project coordinator Anthony Higgins, at anthony.higgins@dot.ca.gov and refer to GTS# 07-LA-2020-03270.

Sincerely,

Miya Edmonson

MIYA EDMONSON
IGR/CEQA Branch Chief
cc: Scott Morgan, State Clearinghouse

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State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
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(858) 467-4201
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GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director

June 25, 2020

Mr. Paul Samaras
City of El Segundo
350 Main Street
El Segundo, CA 90245
PSamaras@elsegundo.org

Subject: Notice of Preparation for the Pacific Coast Commons Specific Plan, SCH #2020050508, City of El Segundo, Los Angeles County

Dear Mr. Samaras:

The California Department of Fish and Wildlife (CDFW) has reviewed the above-referenced Notice of Preparation (NOP) for the Pacific Coast Commons Specific Plan (Project). Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW's Role

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State [Fish & Game Code, §§ 711.7, subdivision (a) & 1802; Public Resources Code, § 21070; California Environmental Quality Act (CEQA) Guidelines, § 15386, subdivision (a)]. CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (Id., § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect State fish and wildlife resources.

CDFW is also submitting comments as a Responsible Agency under CEQA (Public Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code, including lake and streambed alteration regulatory authority (Fish & Game Code, § 1600 *et seq.*). Likewise, to the extent implementation of the Project as proposed may result in "take", as defined by State law, of any species protected under the California Endangered Species Act (CESA) (Fish & Game Code, § 2050 *et seq.*), or CESA-listed rare plant pursuant to the Native Plant Protection Act (NPPA; Fish & Game Code, §1900 et seq.), CDFW recommends the Project proponent obtain appropriate authorization under the Fish and Game Code.

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Project Description and Summary

Objective: The City of El Segundo (City) is proposing the Project, which includes approximately 6.3 acres of developed property located along Pacific Coast Highway (PCH). The Project site currently has a General Plan land use designation of "General Commercial" for the property south of Mariposa Avenue and "Parking" for the property north of Mariposa Avenue. The entire area would receive a new General Plan Land Use Designation and zoning of Pacific Coast Commons Specific Plan. The Project would demolish existing structures, including a former restaurant with meeting/ballroom space, a rental car tenant, and the existing surface parking lots of the Fairfield Inn & Suites by Marriott and Aloft Hotel properties, and would allow for the development of up to 263 new housing units and approximately 11,252 gross square feet of new commercial/retail uses, and associated parking.

Location: The proposed Project site is located at roughly 401-600 N. Pacific Coast Highway in the City of El Segundo within the County of Los Angeles. Specifically, the Project site is bound by Palm Avenue on the north, Pacific Coast Highway (PCH) on the east, Holly Avenue on the south, and Indiana Street on the west. Mariposa Avenue bisects the Project site.

Comments and Recommendations

CDFW offers the comments and recommendations below to assist the Lead Agency (City of El Segundo) in adequately identifying, avoiding and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources.

Specific Comments

1) Nesting Birds. Based on a review of satellite imagery and page B-2 of the NOP, there is scattered vegetation throughout the Project site that may provide potential habitat where Project activities may impact nesting birds. Project activities occurring during the breeding season of nesting birds could result in the incidental loss of fertile eggs, or nestlings, or otherwise lead to nest abandonment in trees directly adjacent to the Project boundary. The Project could also lead to the loss of foraging habitat for sensitive bird species.

    - CDFW recommends that measures be taken to avoid Project impacts to nesting birds. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (Code of Federal Regulations, Title 50, § 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).

    - Proposed Project activities including (but not limited to) staging and disturbances to native and nonnative vegetation, structures, and substrates should occur outside of the avian breeding season which generally runs from February 15 through August 31 (as early as January 1 for some raptors) to avoid take of birds or their eggs. If avoidance of the avian breeding season is not feasible, CDFW recommends surveys by a qualified biologist with experience in conducting breeding bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300-feet of the disturbance area (within 500-feet for raptors). Project personnel, including all

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contractors working on site, should be instructed on the sensitivity of the area. Reductions in the nest buffer distance may be appropriate depending on the avian species involved, ambient levels of human activity, screening vegetation, or possibly other factors.

2) Bats. Despite the high diversity and sensitivity of bats in Southern California, numerous bat species are known to roost in structures throughout the Los Angeles city-region. They will often use the cracks and crevices in large concrete structures, such as those found in parking garages or large buildings, as roosting habitat.

   Bats are considered non-game mammals and are afforded protection by state law from take and/or harassment (Fish and Game Code § 4150, California Code of Regulations § 251.1). An EIR should provide a thorough discussion of potential impacts to bats from construction and operation of the Project to adequately disclose potential impacts and to identify appropriate avoidance and mitigation measures. The CEQA document shall describe feasible measures which could minimize significant adverse impacts (CEQA Guidelines §15126.4[a][1]).

3) Landscaping. As part of this redevelopment plan, landscaping will occur throughout the 6.3-acre site for aesthetic purposes. Habitat loss and invasive plants are a leading cause of native biodiversity loss. Invasive plant species spread quickly and can displace native plants, prevent native plant growth, and create monocultures. CDFW recommends using native, locally appropriate plant species for landscaping on the Project site. CDFW recommends invasive/exotic plants, such as pampas grass (*Cortaderia selloana*) and salt cedar (*Tamarisk spp*.), be restricted from use in landscape plans for this Project. A list of invasive/exotic plants that should be avoided as well as suggestions for better landscape plants can be found at https://www.cal-ipc.org/solutions/prevention/landscaping/

4) Biological Baseline Assessment. CDFW recommends providing a complete assessment and impact analysis of the flora and fauna within and adjacent to the Project area, with emphasis upon identifying endangered, threatened, sensitive, regionally and locally unique species, and sensitive habitats. Impact analysis will aid in determining any direct, indirect, and cumulative biological impacts, as well as specific mitigation or avoidance measures necessary to offset those impacts. CDFW recommends avoiding any sensitive natural communities found on or adjacent to the Project. CDFW also considers impacts to Species of Special Concern a significant direct and cumulative adverse effect without implementing appropriate avoid and/or mitigation measures. The DEIR should include the following information:

   a) Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region [CEQA Guidelines, § 15125(c)]. The DEIR should include measures to fully avoid and otherwise protect Sensitive Natural Communities from Project-related impacts. Project implementation may result in impacts to rare or endangered plants or plant communities that have been recorded adjacent to the Project vicinity. CDFW considers these communities as threatened habitats having both regional and local significance. Plant communities, alliances, and associations with a state-wide ranking of S1, S2, S3 and S4 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by visiting

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https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities#sensitive%20natural%20communities;

b) A thorough, recent, floristic-based assessment of special status plants and natural communities, following CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW, 2018) (see https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline);

c) Floristic, alliance- and/or association-based mapping and vegetation impact assessments conducted at the Project site and within the neighboring vicinity. *The Manual of California Vegetation*, second edition, should also be used to inform this mapping and assessment (Sawyer, 2008). Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions;

d) A complete, recent, assessment of the biological resources associated with each habitat type on site and within adjacent areas that could also be affected by the Project. CDFW's CNDDB in Sacramento should be contacted to obtain current information on any previously reported sensitive species and habitat. CDFW recommends that CNDDB Field Survey Forms be completed and submitted to CNDDB to document survey results. Online forms can be obtained and submitted at http://www.dfg.ca.gov/biogeodata/cnddb/submitting_data_to_cnddb.asp;

e) A complete, recent, assessment of rare, threatened, and endangered, and other sensitive species on site and within the area of potential effect, including California Species of Special Concern and California Fully Protected Species (Fish & G. Code, §§ 3511, 4700, 5050 and 5515). Species to be addressed should include all those which meet the CEQA definition of endangered, rare or threatened species (CEQA Guidelines, § 15380). Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the USFWS; and,

General Comments

1) Project Description and Alternatives. To enable CDFW to adequately review and comment on the proposed Project from the standpoint of the protection of plants, fish, and wildlife, we recommend the following information be included in the DEIR:

a) A complete discussion of the purpose and need for, and description of, the proposed Project, including all staging areas and access routes to the construction and staging areas; and,

b) A range of feasible alternatives to Project component location and design features to ensure that alternatives to the proposed Project are fully considered and evaluated. The alternatives should avoid or otherwise minimize direct and indirect impacts to sensitive

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biological resources and wildlife movement areas.

2) Translocation/Salvage of Plants and Animal Species. Translocation and transplantation is the process of moving an individual from the Project site and permanently moving it to a new location. CDFW generally does not support the use of, translocation or transplantation as the primary mitigation strategy for unavoidable impacts to rare, threatened, or endangered plant or animal species. Studies have shown that these efforts are experimental and the outcome unreliable. CDFW has found that permanent preservation and management of habitat capable of supporting these species is often a more effective long-term strategy for conserving sensitive plants and animals and their habitats.

CONCLUSION

CDFW appreciates the opportunity to comment on the NOP to assist the City of El Segundo in identifying and mitigating Project impacts on biological resources. If you have any questions or comments regarding this letter, please contact Andrew Valand, Environmental Scientist, at Andrew.Valand@wildlife.ca.gov or (562) 292-6821.

Sincerely,

DocuSigned by:
Erinn Wilson
B6E58CFE24724F5...

Erinn Wilson
Environmental Program Manager I

ec: CDFW
Karen Drewe – Los Alamitos
Victoria Tang – Los Alamitos
Andrew Valand – Los Alamitos
Felicia Silva – Los Alamitos
Malinda Santonil – Los Alamitos
CEQA HQ - Sacramento

State Clearinghouse

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL: June 3, 2020

psamaras@elsegundo.org
Paul Samaras, AICP, Principal Planner
City of El Segundo, Planning and Building Safety Department
350 Main Street
El Segundo, CA 90245

Notice of Preparation of an Environmental Impact Report for the Proposed Pacific Coast Commons Specific Plan

The South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. South Coast AQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the Proposed Project that should be included in the Environmental Impact Report (EIR). Please send South Coast AQMD a copy of the EIR upon its completion and public release. Note that copies of the EIR that are submitted to the State Clearinghouse are not forwarded to South Coast AQMD. Please forward a copy of the EIR directly to South Coast AQMD at the address shown in the letterhead. **In addition, please send with the EIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files[1]. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, South Coast AQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

South Coast AQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. South Coast AQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from South Coast AQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on South Coast AQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). South Coast AQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

South Coast AQMD has also developed both regional and localized significance thresholds. South Coast AQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results

[1] Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

to South Coast AQMD's CEQA regional pollutant emissions significance thresholds to determine air quality impacts. South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, South Coast AQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the Proposed Project, it is recommended that the Lead Agency perform a localized analysis by either using the LSTs developed by South Coast AQMD staff or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, for phased projects where there will be an overlap between construction and operational activities, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA *operational* thresholds to determine the level of significance.

In the event that the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance[2] on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

Mitigation Measures

If the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and

[2] In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 of South Coast AQMD's CEQA Air Quality Handbook
- South Coast AQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- South Coast AQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- South Coast AQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf
- California Air Pollution Control Officers Association (CAPCOA)'s *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Alternatives

If the Proposed Project generates significant adverse air quality impacts, CEQA requires the consideration and discussion of alternatives to the project or its location which are capable of avoiding or substantially lessening any of the significant effects of the project. The discussion of a reasonable range of potentially feasible alternatives, including a "no project" alternative, is intended to foster informed decision-making and public participation. Pursuant to CEQA Guidelines Section 15126.6(d), the EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

Permits

If the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a responsible agency for the Proposed Project. For more information on permits, please visit South Coast AQMD webpage at: http://www.aqmd.gov/home/permits. Questions on permits can be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

Data Sources

South Coast AQMD rules and relevant air quality reports and data are available by calling South Coast AQMD's Public Information Center at (909) 396-2001. Much of the information available through the Public Information Center is also available at South Coast AQMD's webpage at: http://www.aqmd.gov.

South Coast AQMD staff is available to work with the Lead Agency to ensure that project air quality impacts are accurately evaluated, and any significant impacts are mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC200602-07
Control Number

LOZEAU DRURY LLP

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F 510.836.4205

1939 Harrison Street, Ste. 150
Oakland, CA 94612

www.lozeaudrury.com
richard@lozeaudrury.com

Via Email

June 3, 2020

Paul Samaras, Principal Planner
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City Clerk's Office
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350 Main Street
El Segundo, CA 90245
tweaver@elsegundo.org

Re: CEQA and Land Use Notice Request for Pacific Coast Commons Specific Plan aka SCH #2020050508

Dear Mr. Samaras, Mr. McClain, and Ms. Weaver:

I am writing on behalf of Supporters Alliance For Environmental Responsibility ("SAFER"), regarding Pacific Coast Commons Specific Plan, aka SCH #2020050508), including all actions related or referring to the proposed demolition of existing structures and the development of up to 263 new housing units and approximately 11,250 gross square feet of new commercial/retail uses, and associated parking, located at 401-575 N. Pacific Coast Highway (PCH) and parking lot on 600-block of PCH in the city of El Segundo ("Project").

We hereby request that the City of El Segundo ("City") send by electronic mail, if possible or U.S. Mail to our firm at the address below notice of any and all actions or hearings related to activities undertaken, authorized, approved, permitted, licensed, or certified by the City and any of its subdivisions, and/or supported, in whole or in part, through contracts, grants, subsidies, loans or other forms of assistance from the City including, but not limited to the following:

- Notice of any public hearing in connection with the Project as required by California Planning and Zoning Law pursuant to Government Code Section 65091.

- Any and all notices prepared for the Project pursuant to the California Environmental Quality Act ("CEQA"), including, but not limited to:

    - Notices of any public hearing held pursuant to CEQA.
    - Notices of determination that an Environmental Impact Report ("EIR") is required for the Project, prepared pursuant to Public Resources Code Section 21080.4.
    - Notices of any addenda prepared to a previously certified or approved EIR.
    - Notices of any scoping meeting held pursuant to Public Resources Code Section 21083.9.

- Notices of preparation of an EIR or a negative declaration for the Project, prepared pursuant to Public Resources Code Section 21092.
- Notices of availability of an EIR or a negative declaration for the Project, prepared pursuant to Public Resources Code Section 21152 and Section 15087 of Title 14 of the California Code of Regulations.
- Notices of approval and/or determination to carry out the Project, prepared pursuant to Public Resources Code Section 21152 or any other provision of law.
- Notices of approval or certification of any EIR or negative declaration, prepared pursuant to Public Resources Code Section 21152 or any other provision of law.
- Notices of determination that the Project is exempt from CEQA, prepared pursuant to Public Resources Code section 21152 or any other provision of law.
- Notice of any Final EIR prepared pursuant to CEQA.
- Notice of determination, prepared pursuant to Public Resources Code Section 21108 or Section 21152.

Please note that we are requesting notices of CEQA actions and notices of any public hearings to be held under any provision of Title 7 of the California Government Code governing California Planning and Zoning Law. **This request is filed pursuant to Public Resources Code Sections 21092.2 and 21167(f), and Government Code Section 65092**, which requires agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

Please send notice by electronic mail, if possible or U.S. Mail to:

Richard Drury
Stacey Oborne
Komalpreet Toor
Lozeau Drury LLP
1939 Harrison Street, Suite 150
Oakland, CA 94612
510 836-4200
richard@lozeaudrury.com
stacey@lozeaudrury.com
komal@lozeaudrury.com

Please call if you have any questions. Thank you for your attention to this matter.

Sincerely,



Komalpreet Toor
Legal Assistant
Lozeau | Drury LLP

From:	Reagan Maechling
To:	Samaras, Paul
Subject:	Scoping Mtg 6/10 for Pacific Coast Commons Specific Plan
Date:	Monday, June 8, 2020 2:00:01 PM

Hello Mr. Samaras,
I am resident of El Segundo, residing at [redacted] I am writing to submit comments and questions regarding the proposed development, Pacific Coast Commons Specific Plan.

1) The development will contain 263 proposed housing units. How many of these units will be set-aside as affordable housing? I strongly favor a requirement that a minimum of 20% of the units be structured as affordable rental housing and developed in partnership with an experienced affordable housing developer utilizing the Low Income Housing Tax Credit program to ensure affordability for 55-years. There is no way the City should allow this to be built as 100% market rate housing.

2) Has ESUSD been consulted about the impact these additional units may have on our schools?

3) Will the cost of parking for the residential units (and retail) be included in rental/sales prices or separate? Parking should be de-coupled from housing prices to encourage alternate forms of transportation.

I do support the redevelopment of these highly underutilized sites, but the development plan must incorporate a REAL commitment to affordable housing, which is so desperately needed in our community, first and foremost.

Thank you,
Reagan Maechling

From: kevin maggay
To: Samaras, Paul
Subject: Fwd: Pacific Coast Commons NOP
Date: Friday, June 19, 2020 8:36:14 AM

Hello-
Thanks for the opportunity to comment on the Pacific Coast Commons Specific Plan EIR NOP. This is a major development in our city and it is important to provide residents and stakeholders the opportunity to provide continual input. With that said, I would like to offer the following comments on the NOP.

- The project is proposed on a major thoroughfare, that serves airport travelers (at one of the busiest airports in the world) and local and regional commuters, while also being located one block from residential uses. This unique situation requires the traffic study to look deeper into the assumptions and methodologies used, rather than the standard "cookie cutter" assumptions. Traffic on PCH and spill over to residential streets is a major concern for residents. We strongly urge public engagement on the traffic study as previous traffic studies have not been indicative to the unique transportation environment along this corridor.
- Due to its location, the project is highly visible to drivers/passengers. This may be the only visual aesthetic of the City of El Segundo that these people see. That aesthetic could essentially be their impression of the city. Therefore, the design and overall aesthetic should be discussed with community members. A number of public design workshops should be held soliciting aesthetic input from the community.
- The proposed project would add 263 residential units but does not propose any open space or public recreation facilities. This is unacceptable. El Segundo currently enjoys exceptional park and recreation services with a high acre to population ratio (appr 3.8 acres:1,000 residents). We would like to maintain that ratio to have the same level of enjoyment from our park system.

Thanks for your time and please feel free to reach out to me if you have questions.

From:	Zach Levine
To:	psamaras@elsegundo.org
Subject:	Pacific Coast Commons Specifc Plan Environmental Concern
Date:	Wednesday, June 24, 2020 7:19:07 PM

Hello Mr. Samaras,

I am writing as a El Segundo resident of [redacted] about 30 ft from where some new townhomes for the Pacific Coast Commons are planned to be built. I would like to submit comments regarding 3 particular environmental effects:

1. Population and Housing
The new proposed housing complex is a luxury apartment complex. Looking at similar complexes in the area, its estimated a 1 bedroom apartment in such a complex would be rented today at $2200 - $2600 a month. This number will be higher by the time it is completed. This puts these units out of reach of all but the highest paid in El Segundo.

This type of luxury complex does not make El Segundo more accessible and only contributes to the housing crisis here and Los Angeles at large by creating unaffordable housing. If El Segundo is allowing a large traffic inducing apartment complex to be built, the city should, as much as possible, force companies to build actual affordable, non-luxury housing. If El Segundo allows complexes like this the personality and diversity of the city will be lost.

2. Noise
If construction is to occur on this complex, the utmost care must be taken to minimize noise, as the construction would be extremely close (30 ft) to the windows of existing households. An otherwise quiet bedroom could easily become noisy. This issue will be exacerbated if Work From Home is still in effect for many companies.

3. Transportation
Put simply, this complex will lengthen commutes and increase traffic. This complex should consider decreasing its size to widen roads, especially on Mariposa west of PCH.

Thank You for accepting my comments,

Zach Levine

El Segundo, CA

From: Barden, Maria C.
Sent: Thursday, June 25, 2020 3:40 PM
To: Samaras, Paul
Subject: RE: Environmental Assessment No. EA 1248

Importance: High

Hello Mr. Samaras,
I am a resident of El Segundo near the projected new development which consists of three developments including Pacific coast Commons – South, Pacific Coast Commons – Fairfield Parking, and Pacific Coast Commons – North. I have several concerns with the amount of traffic and additional residents in the area. Now with the new norm of social distancing which may continue for a year plus, I don't think it makes sense to add a potential 500 plus residents in this small urban area. With the acceptance of more work from home options, the need to increase residents in a small urban town should decline. People are choosing to live in less expensive cities while maintaining WFH. I find it will be too congestive for this area. My recommendations is to consider only developing the Pacific Coast Commons – South with a maximum of 150 residents and the possible 6 new townhomes off of Palm Avenue. The Fairfield parking lot could be designated to additional retail and parking. I would also like to request permit parking on Palm Avenue between PCH and California Street and double pain windows for residents on the South side of Palm Avenue since we should have received that years ago from the LAX International Airport but apparently the funds had been overspent and our section never received double pain windows as promised.

Thank you,
Maria Barden

From: Tony Manzo
Sent: Thursday, June 25, 2020 4:49 PM
To: Samaras, Paul
Subject: Environmental Assessment No. EA 1248

Dear Paul Samaras,

I live in El Segundo near the proposed Pacific Coast Commons development. I noticed that the potential for a likely increase in crime may not be stressed as much as needed in the environmental impact assessment for this development. The number of homeless, transients, drug addicts, and mentally ill have increased significantly in El Segundo these past few years. Many of these persons are attracted to higher populated areas where they have more opportunity to panhandle and steal. I believe the population of the transients, drug addicts, and mentally ill will keep increasing in El Segundo. The two growing populations of transients and rent/tax paying residents will likely lead to many more incidents of crime. This can be seen in other cities through-out California where homelessness and crime are out of control.

Thank you,
Tony

Tony Manzo

From: Washom, Byron
Sent: Thursday, June 25, 2020 4:52 PM
To: Samaras, Paul
Cc: Magdaleno-rivera Arleen
Subject: Public Comments on the Pacific Commons Project

Dear Mr. Samaras,

Thank you for the Scoping meeting that you conducted on June 10th regarding the Pacific Commons Project. My wife and I are homeowners at [redacted] and would like to offer the following input for the preparation of the EIR on the Pacific Commons Project.

Foremost, we would expect that the EIR view the cumulative impacts of the project that will last more than 50 years in light of the significant other development projects either recently installed or in the planning stages. Our concerns center around the topics of Air and Noise Pollution, Traffic, Parking and amenities at the green parks along Washington Street. We regret that the initially briefing was primarily confined to inside the boundaries of the project and did not convey how the project would incorporate the impacts from the forthcoming development of the old Boeing building and Stick and Stein on PCH. Additionally, the significant impacts from the recent In and Out Burger and Chick Filet on PCH. Thus, we would advocate for a holistic neighborhood approach to the EIR rather than planning in isolation or factoring both the recent and forthcoming growth in the area.

We know that there will be additional opportunities to participate in the preparation of the EIR, but we would like to make sure that the forthcoming issues are included.

1. We very much embraced your idea of possible special parking district for the neighbors in the immediate area on Mariposa, Washington and Palm. It is reasonable to fear that what limited on-street parking there is in the area, it will get inundated with overflow and guests from Pacific Commons as well as the Boeing and Stick and Stein developments. This issue should be addressed and resolved on the impacts alone from the Pacific Commons.
2. We will closely examine precisely how the developers of Pacific Common North will provide egress from the apartment and townhouse parking areas onto Mariposa in order to get north and south bound on PCH. Using the fire lane north to Palm to accomplished the same directions at the unsignaled traffic lights at Palm and PCH should not be an option. We suggest that the fire line be a ingress and egress off of Mariposa for the apartments and off of Palm for the townhouses. Removable bollards designed for fire lanes should be install at the boundary between the townhouses and Apartments to prevent the fire lane being an open passage way between Palm and Mariposa.
3. The apartment and commercial complex should not allow deliveries or schedule trash pick up prior to 8 a.m. to minimize the noise impact of the project.
4. The increased air pollution impact from personal automobiles should be of offset by not only meeting but exceeding the CALGREEN requirements for providing Level 2 electric vehicle charging stations for the apartment and townhouse residents in addition to the commercial buildings. Many jurisdictions are imposing higher penetrations of not just “make ready” conduiting, but actual deployment of chargers at the initial commissioning of the project. Rather than viewed as meeting a code requirement, it would be great if the magnitude of the EV charging infrastructure for a MUD be a marketing amenity in the near term and the long term. The commercial parking should have at least one DC Fast Charger.
5. The volume of people using the green park strip along Washington has increased dramatically from the take out food patrons from nearby restaurants. The residents of Pacific Commons will quite reasonably enjoy sharing this park area. Although the playground was a great addition to the area, I doubt it will be sufficient for the volume of new residents that will moving into the neighborhood. Additionally, the level of trash cans and frequency of

pick up has not increased despite the higher level of non-resident luncheon users. For example, there is still only one temporary plastic trash can between Washington and Palm which hardly facilitates these non-resident users from walking a block to through their luncheon garbage away. Upgrading this park area should be considered to minimize the impacts of Pacific Commons.

These are the issues we wished to raise at this time, but as one participant noted on June 10th, Pacific Commons is a first for El Segundo in terms of having residential units directly located on PCH. I am sure other issues will likely arise.

Thank you for your consideration, and we look forward to working with you and the developers.

Sincerely,

Arleen and Byron Washom

CITY OF INGLEWOOD

ECONOMIC AND COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

Inglewood All-America City 2009

Christopher E. Jackson, Sr.
Department Director

Mindy Wilcox, AICP
Planning Manager

July 6, 2020

City of El Segundo
Paul Samaras, Principal Planner
Planning and Building Safety Department
350 Main Street
El Segundo, California 90245

RE: Notice of Preparation of an Environmental Impact Report and Public Scoping Meeting for the Pacific Coast Commons Specific Plan

Dear Mr. Samaras,

Thank you for the opportunity to provide comments for the Notice of Preparation of an Environmental Impact Report (EIR) and Public Scoping Meeting for the Pacific Coast Commons Specific Plan at 401 – 575 N. Pacific Coast Highway, El Segundo, California. We have no initial comments at this time regarding the Notice of Preparation. However, we request that you continue to apprise us of all developments in the CEQA process for this project.

Should you have any questions please contact Senior Planner, Fred Jackson at (310) 412-5230. We look forward to reviewing the draft Environmental Impact Report and we appreciate the opportunity to provide input.

Sincerely,

Mindy Wilcox, AICP
Planning Manager

cc: Fred Jackson – Senior Planner

Scoping Meeting Comments

Pursuant to Section 21083.9 of the California Environmental Quality Act (CEQA) Statutes and Section 15082(c) of the State CEQA Guidelines, the City of El Segundo, as the lead agency is required to conduct at least one scoping meeting for all projects of State-wide, regional, or area-wide significance as outlined in Section 15206 of the State CEQA Guidelines. The scoping meeting is for jurisdictional agencies and interested persons or groups to provide comments regarding, but not limited to, the range of actions, alternatives, mitigation measures, and environmental effects to be analyzed. Rather than conducting an in-person meeting, the Governor's Executive Order N-25-20 allows local governments to hold meetings via teleconferencing while still meeting state transparency requirements. Therefore, the Project's Scoping Meeting was held online, through a webinar type format. The City hosted one Scoping Meeting that was held on Wednesday, June 10, 2020 from 6:30 PM to 7:30 PM that was made available through the City's website at http://www.elsegundo.org/government/departments/planning-and-building-safety-department/planning-division/active-projects or https://bit.ly/COESACTIVEPROJECTS.

At the conclusion of the presentation, attendees of the webinar were able to provide comments and questions about the proposed Project to the City, the Applicant, and the CEQA Consultant during the questions and answers portion of the meeting. There were several questions regarding the project that were answered live during the scoping meeting. In addition to these questions, the City received 6 comments/questions with environmental concerns during the Scoping Meeting, which are provided in Table A below.

Table A. Scoping Meeting Comments Summary

Sender of Comments	Comment/Question	Addressed In Section(s)
Bill Quisenberry	"Our organization, the Southern California District Council of Laborers represents over 32,000 working men and women in the construction industry here in Southern California, many of which reside in the local area where this project will be constructed. We would like to see if we could start a communication with the applicant, Mar Ventures Inc for possible"	N/A
Byron Washom	"How will traffic on the fire lane be designed to restrict traffic to residents of that structure? How will parking be restricted to residents and guests only?"	Section 4.13, Transportation
Anonymous Attendee	"I am a resident on Palm avenue and permit parking would be necessary for residents."	Section 4.13, Transportation
Anonymous Attendee	Will analysis be performed to understand the impact of charging for parking on the density of cars parked on surrounding neighborhood streets?	Section 4.13, Transportation
Anonymous Attendee	"Concerned about a noise for nearby residents."	Section 4.10, Noise
Anonymous Attendee	"Does the traffic study include looking at extending the proposed dedicated right turn lane from Mariposa onto PCH?"	Section 4.13, Transportation

PACIFIC COAST COMMONS SPECIFIC PLAN

Specific Plan No. SP 19-01



February 2021

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I. INTRODUCTION

A. SPECIFIC PLAN AREA

Pacific Coast Commons Specific Plan (PCCSP) area is located in the City of El Segundo, County of Los Angeles, California. El Segundo is situated approximately 15 miles southwest of downtown Los Angeles. The City of El Segundo is located south of the City of Los Angeles, west of the City of Hawthorne and the County of Los Angeles, north of the City of Manhattan Beach, and east of the City of Los Angeles and the Pacific Ocean (refer to Exhibit 1, *Regional Vicinity Map*).

More specifically, the roughly 6.385 gross acre area within the Specific Plan (6.23 net acres post street dedications) is located in the northwest quadrant of the City of El Segundo, approximately three quarters of a mile south of the Los Angeles International Airport (LAX) and the Glen Anderson Century Freeway (I-105), approximately two and one quarter miles west of the San Diego Freeway (SR-405), and approximately two and a half miles southwest of the juncture of these two freeways.

The site encompasses a "superblock" bounded by Pacific Coast Highway, Mariposa Avenue, Holly Avenue and Indiana Street containing the Aloft and Fairfield Inn and Suites hotels. The site also includes a parking lot on a portion of the block to the north of the hotel "superblock" that has frontage on Pacific Coast Highway, Mariposa Avenue to the south and Palm Avenue to the north (refer to Exhibit 2, *Local Vicinity Map*, and Exhibit 3, *Local Vicinity Aerial View*).

The adjacent land uses and zoning include the following (refer to Exhibit 4, Existing Development):

North: The adjacent land uses to the north include: a fast food restaurant and a vacant restaurant and parking lot in the General Commercial (C-3) Zone; and multi-family residential uses in the Multi-Family Residential (R-3) Zone. A gas station is located on the northwest corner of Mariposa Avenue and Pacific Coast Highway in the General Commercial (C-3) Zone, which is north of the superblock that contains the two existing hotels and southeast of the parking lot for the Fairfield Inn and Suites Hotel located along Pacific Coast Highway between Mariposa and Palm Avenues. A fast-food restaurant, Carl's Jr., is located northeast of the same parking lot. Carl's Jr. is located at the southwest corner of Pacific Coast Highway and Palm Avenue.

East: The adjacent land uses to the east across Pacific Coast Highway include: a property with restaurants and office uses in the Corporate Office (CO) Zone; a Ralphs market and two commercial shopping centers with retail and restaurant uses in the General Commercial (C-3) Zone, and a 6-story office building in the Corporate Office (CO) Zone.

South: The adjacent land uses to the south of Holly Avenue include a small commercial shopping center with a drug store, bank, two restaurants and a retail store in the General Commercial (C-3) Zone.

West: The adjacent land uses to the west include multi-family residential uses in the Multi-Family Residential (R-3) Zone.

B. BACKGROUND

In 1957 a 386-room hotel known as the Thunderbird International Hotel was built on the property that is contained within the Specific Plan area. A restaurant, coffee shop, banquet rooms and lounge were added in 1958. The coffee shop was later renovated and re-opened in August 1962 as the Huki Lau restaurant with Polynesian décor and cuisine. The hotel was sold in the 1960's and renamed the Hacienda International Hotel which was later shortened to the Hacienda Hotel. The restaurant was renamed the Tiki Hut at that time as well.

The hotel was further expanded over the years and enlarged to include a maximum of 640 rooms at its peak with a reputation as the 10th largest hotel in the County of Los Angeles. In 1987, the hotel was granted a new Conditional Use Permit (EA-132; CUP 87-01) to allow for further renovations and the construction of a 60-foot tall sign tower with a 150 square-foot sign. Parking for the Hacienda Hotel was provided in multiple locations that included a parking lot located on the same block to the south of the Hacienda Hotel, a parking lot across the street on the block to the north of the hotel at 629 North Pacific Coast Highway, and some parking spaces interspersed around the hotel buildings.

On October 9, 2014 the Planning Commission approved two new conditional use permits (EA-1061; CUP 14-01 and CUP 14-02) to allow the existing Hacienda Hotel with 619 guest rooms to be split into two hotels, renovated and modernized. The North Hotel (located at 525 and 545 North Pacific Coast Highway) was renamed the Fairfield Inn and Suites and the South Hotel was renamed the Aloft Hotel (located at 475 North Pacific Coast Highway). The Aloft Hotel was reduced from 263 to 246 guest rooms and included a 6,640 square-foot addition to the existing 9-story hotel that provided a front desk area, lounge, self-serve food area, bar, multi-purpose room and exercise room. The Aloft Hotel includes an outdoor pool and an outdoor dining patio. The Aloft Hotel is 106,747 gross square feet in size. The Fairfield Inn and Suites was reduced from 356 to 350 guest rooms. The Fairfield Inn and Suites includes 3 buildings: a 9-story tower containing guest rooms, a 4-story building (with a central courtyard and pool area) that contains a lobby area, restaurant, bar, meeting rooms, a fitness room, and guest rooms, and a 2-story "food and beverage" building that contains banquet rooms, a restaurant/bar, and storage uses. The total square footage of the existing Fairfield Inn and Suites Hotel (3 buildings) is 217,311 gross square feet in size. Parking for the Aloft Hotel is provided in the existing parking lot to the south of the hotel (167 parking spaces). Additionally, 23 spaces are currently provided off-site pursuant to an off-site parking covenant in the existing parking lot at 629 North Pacific Coast Highway. Parking for the Fairfield Inn and Suites Hotel is provided primarily off-site with 213 parking spaces provided pursuant to an off-site parking covenant in the existing parking lot at 629 North Pacific Coast Highway and 33 parking spaces provided on-site.

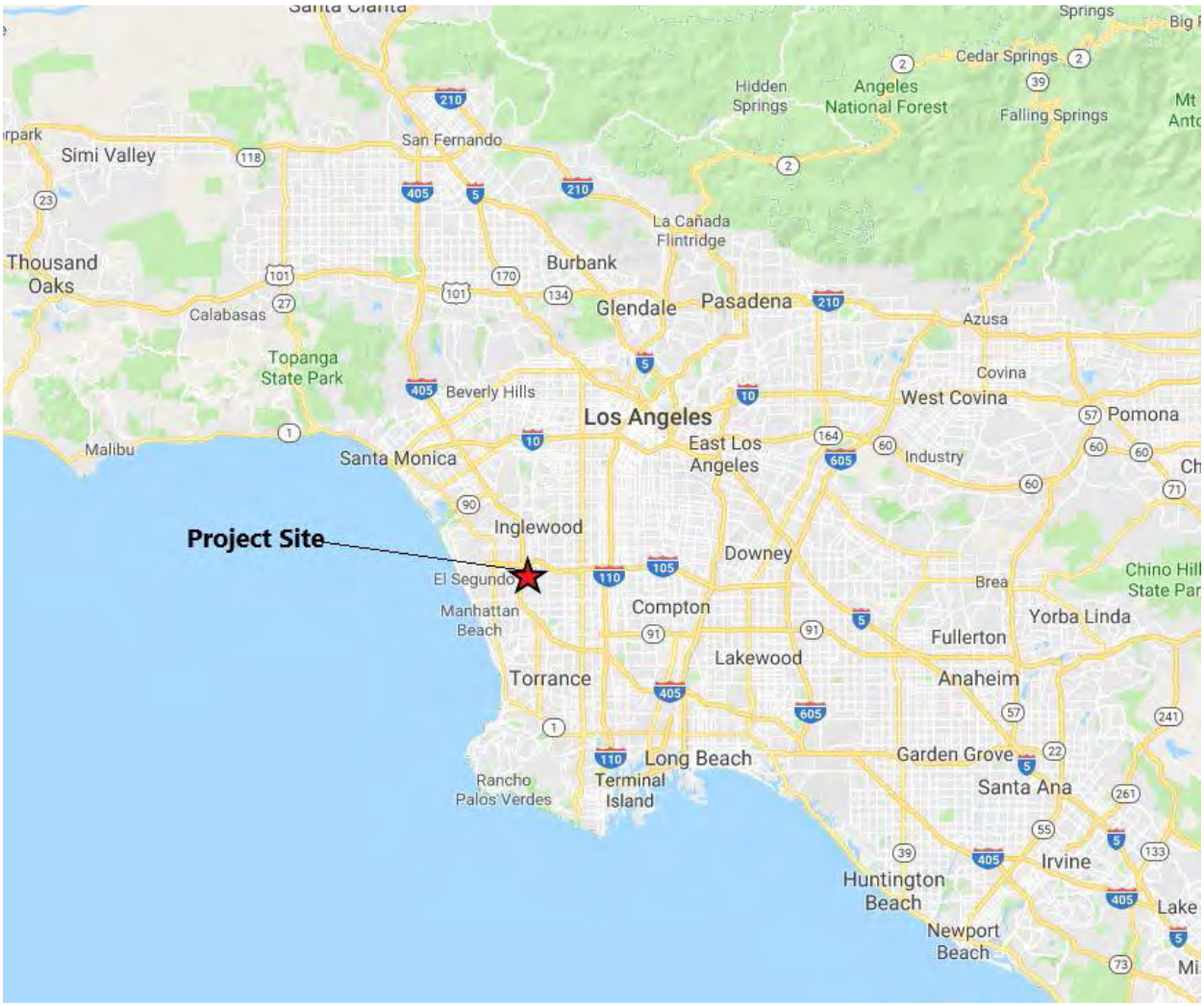


EXHIBIT 1
REGIONAL LOCATION MAP

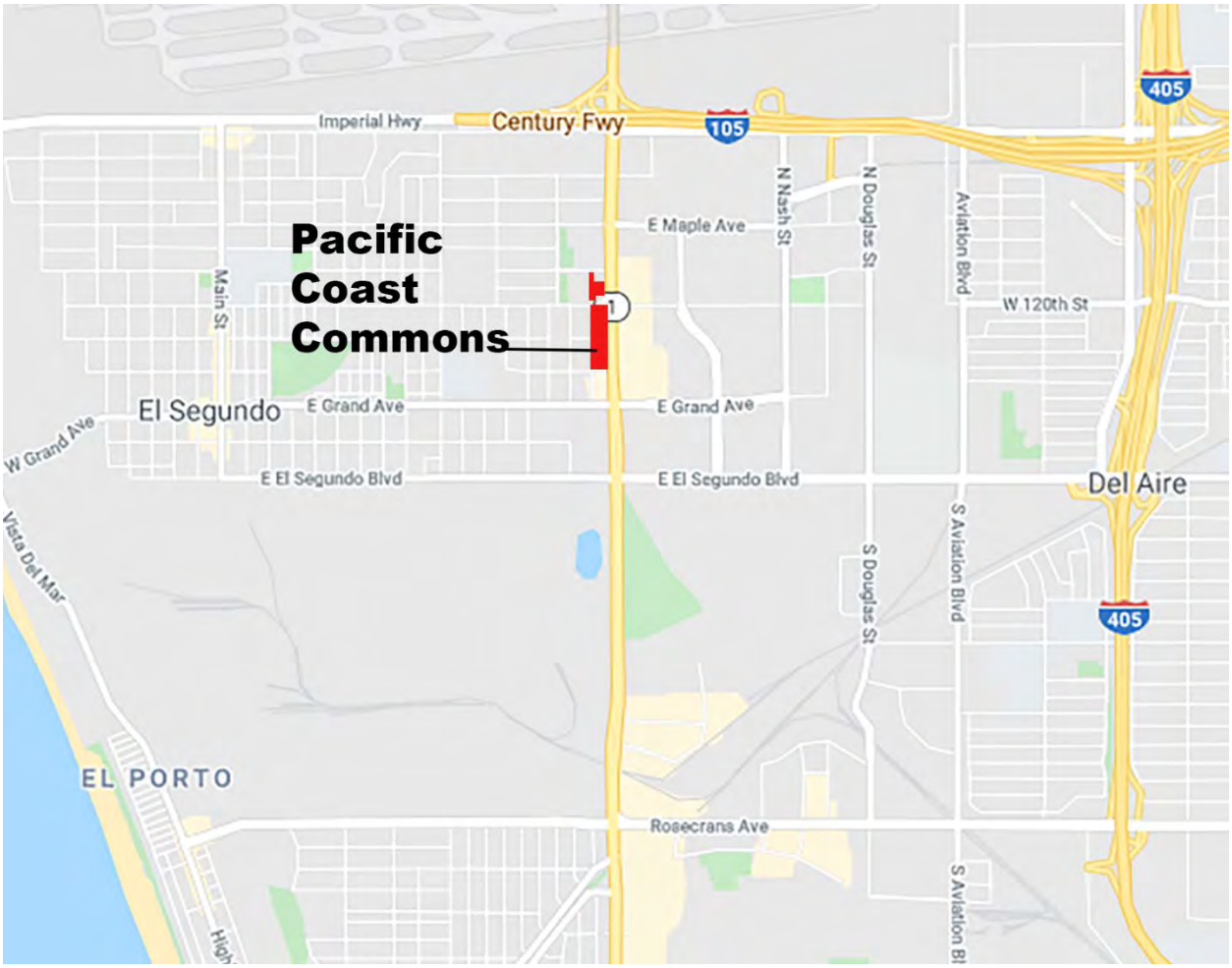


EXHIBIT 2
LOCAL VICINITY MAP



EXHIBIT 3
LOCAL VICINITY AERIAL VIEW



EXHIBIT 4
EXISTING DEVELOPMENT

The Aloft Hotel is 98,741 net square feet in size with an existing 0.992 FAR based upon its current lot size and configuration where a maximum of 1.0 FAR is allowed. The 3 buildings that comprise the Fairfield Inn and Suites Hotel total 190,026 net square feet in size with an existing 1.94 FAR where 1.0 FAR is allowed (existing legal, non-conforming condition). Both properties are non-conforming in regard to many development standards as they were built prior to the current development standards of the General Commercial (C-3) Zone.

The existing uses consist of:

Table I-1
Existing Uses

Building	Use	Net Square Footage	Gross Square Footage
Aloft Hotel	246 guest rooms, lobby/check-in area, lounge/bar, retail (food self-serve), multi-purpose meeting room/hospitality suite, fitness room, outdoor pool	98,741	106,747
Fairfield Inn and Suites Hotel	350 guest rooms, lobby/check in area, restaurant/bar, meeting room/event space (banquet rooms), office, storage , outdoor pool and patio area	190,028	217,311
Total		**288,767 square feet**	**324,058 square feet**

Under the existing General Commercial (C3) development standards no additional development could occur as the existing hotels utilize the maximum FAR allowed. Further, the parking lot to the north is currently zoned Automobile Parking (P) which only allows surface parking lots and parking structures. Commercial development is not permitted in the Automobile Parking (P) Zone. Therefore, a Specific Plan is needed in order to allow the proposed mixed-use residential/commercial development to be added to the site along with the two existing hotels that will remain.

BRE El Segundo Property Owner A LLC, BRE El Segundo Property Owner B LLC, and BRE EL Segundo Parking LLC (collectively, "BRE El Segundo") filed for this Specific Plan along with other applications. The other applications include an Environmental Assessment, a General Plan and General Plan Map Amendment, Zone Change, Zoning Map Amendment, Zone Text Amendment, a Development Agreement, a Subdivision of Land (Vesting Tentative Map), Site Plan Review, a Parking Demand Study and Shared Parking Analysis, street dedication waivers for a portion of the dedication requirements for Mariposa Avenue and Indiana Street, reciprocal access agreements, an amendment to Resolution Nos. 2759 and 2760 to rescind the previous approvals of SUB No. 1405, Lot Tie Covenant No. 14-03, Off-site Parking Covenant Nos. MISC 14-03 and 14-06, leaving in place CUP Nos. 14-01 for the Fairfield Inn and Suites Hotel and CUP No. 14-02 for the Aloft Hotel, along with alcohol service at both hotels with modifications to the conditions

of approval accordingly, and new off-site parking covenants to replace the previously approved Parking Covenant Nos. MISC 14-03 and 14-06. The intent of the Specific Plan is to allow the development of the Specific Plan area with the combination of new and existing development with allowed residential and commercial uses with an average floor area ratio (FAR) of 2.15:1, a minimum floor area ratio (FAR) of 0.16:1 in any one land use district and a maximum floor area ratio (FAR) of 2.70:1 in any one land use district. The majority of the new development will target adding new housing stock to the community to meet existing and future housing needs through the development of existing surface parking lots and demolition of 41,660 gross square feet of a portion of the Fairfield Inn and Suites hotel ("Food and Beverage" Building") located at the southwest corner of Mariposa Avenue and Pacific Coast Highway. The adoption of this Specific Plan will allow expansion of the uses permitted on the site with development standards tailored to the unique mix of hotel, residential and commercial (retail and office) uses on the site.

C. DEMOGRAPHICS

According to the 2010 United States Census, as of 2010 El Segundo had a population of 16,654 persons and a total of 7,410 dwelling units. From 2000 to 2010, El Segundo's population increased by 4%. The California Department of Finance reported a population of 17,066 persons in May 2019. The 2019 Profile of the City of El Segundo prepared by the Southern California Association of Governments ("SCAG") indicates that as of 2017 there were 48,515 jobs in the City of El Segundo.

D. ECONOMIC CONTEXT

At its peak before the economic recession in 2008, El Segundo had a daytime population of approximately 85,000 persons compared to its resident population of approximately 17,000 persons. There was a net loss of jobs in the City between 2007 and 2012 with the number of jobs beginning to increase again in 2013. According to SCAG's 2015 profile the total number of jobs dropped from 56,559 persons in 2007 to 38,447 jobs in 2012. In addition to the fiscal benefits including increased sales tax, utility tax and property tax that will be provided as a result of the added residential and commercial uses, the potential for approximately 56 additional jobs that will be created by this Specific Plan will improve the overall economic health of the City. The additional jobs will be the result of the new commercial uses as no changes in employment are anticipated at the two existing hotels with the adoption of this Specific Plan. The additional jobs and increased tax base will contribute to the City's ability to provide high quality municipal services to the benefit of the City's resident and business community. The addition of 263 housing units will have a positive effect on the jobs/housing balance by increasing the number of housing units in the City to support El Segundo's jobs rich environment.

II. OVERVIEW OF THE SPECIFIC PLAN

A. PURPOSE AND AUTHORITY OF SPECIFIC PLAN

The purpose of this Specific Plan is to provide a foundation for the proposed land uses on the subject property through the application of regulations, standards and design guidelines. The Pacific Coast Commons Specific Plan provides text and exhibits which describe the proposed land uses and associated guidelines.

This Specific Plan is adopted pursuant to Government Code §§ 65450 through 65457.

Pursuant to Government Code § 65451, a Specific Plan must include text and a diagram or diagrams which specify all of the following in detail:

- The distribution, location, and extent of the uses of land, including open space within the area covered by the plan.
- The proposed distribution, location, extent, and intensity of major components of public and private transportation, sewage, water, drainage, solid waste disposal, energy and other essential facilities proposed to be located within the land area covered by the plan and needed to support the land uses described in the plan.
- Standards and criteria by which development will proceed, and standards for the conservation, development, and utilization of natural resources, where applicable.
- A program of implementation measures including regulations, programs, public works projects and financing measures necessary to carry out the above items.
- A discussion of the relationship of the Specific Plan to the General Plan.

A thorough review of the El Segundo General Plan shows that this Specific Plan is compatible and consistent with the goals and policies outlined in the General Plan. This Specific Plan will further the goals and policies of the General Plan as more fully described below.

This Specific Plan was prepared to provide the essential relationship between the policies of the El Segundo General Plan and actual development in the Project area. By functioning as a regulatory document, the Pacific Coast Commons Specific Plan provides a means of implementing the City of El Segundo's General Plan. All future development plans and entitlements within the Specific Plan boundaries must be consistent with the standards set forth in this document. The Specific Plan is the sole regulatory document for development standards and design standards except where explicit references are made to the El Segundo Municipal Code or where terms used in this Specific Plan are defined in the El Segundo Municipal Code Section 15-1-6 and are not defined herein.

B. SPECIFIC PLAN SCOPE AND GOALS

The City of El Segundo is an employment-led community and accordingly, development has been led by employment rather than housing growth. The Pacific Coast Commons Specific Plan will: 1) serve the mission of economic development in the City which is to create, maintain, and implement a business climate that fosters a strong economic community; 2) provide opportunities for new high-quality multiple-family housing (apartments and townhomes) that will increase housing supply to meet the needs of El Segundo residents and employees in El Segundo's expanding business community; 3) improve the jobs/housing balance by increasing housing supply; 4) add affordable housing to the City; 5) provide benefits to air quality through the reduction of greenhouse gas emissions by providing new housing in close proximity to jobs and public transit; 6) enhance sustainability through the design of the development; and 7) maintain the quality of life that has characterized El Segundo for more than one hundred years.

Permitted uses within the Specific Plan area will create both housing and job opportunities for the residential and business community. The new commercial uses (restaurant, retail and office) allowed by the Specific Plan will create a synergy with the existing hotels, the new multi-family residential uses, and other existing commercial and industrial uses in the surrounding area. The commercial uses will provide needed amenities for the residents of the multi-family residential uses and the multi-family residential uses will support the growth of the surrounding commercial businesses. The design of the project will provide a high-quality pedestrian environment that will be compatible with the surrounding uses and create a sense of place for the surrounding neighborhood. The development allowed under the Specific Plan will provide a basis for a positive contribution to the maintenance and expansion of El Segundo's economic base as development typically increases the City's business license taxes, increases the City's utility user taxes, and increases the City's sales taxes. An increased economic base will provide the City with resources to provide high-quality services to its residents and daytime population.

C. CONSISTENCY WITH THE GENERAL PLAN

The El Segundo General Plan provides the underlying fundamentals of the Pacific Coast Commons Specific Plan, which serves both as a planning and regulatory document. The Specific Plan is the document implementing the El Segundo General Plan for the Specific Plan area.

Proposed development plans, tentative maps, and any other development approvals must be consistent with the Specific Plan. Projects consistent with this Specific Plan will be automatically deemed consistent with the General Plan.

Concurrent with the adoption of the Pacific Coast Commons Specific Plan the City also processed a General Plan Amendment that changes the Land Use Designation from General Commercial for the block bounded by Pacific Coast Highway, Mariposa Avenue, Indiana Street, and Holly Avenue to the Pacific Coast Commons Specific Plan and from Parking for the remaining parcels to the Pacific Coast Commons Specific Plan with an accompanying Land Use map change. The Specific Plan is therefore consistent with the General Plan of the City of El Segundo. More specifically, the Specific Plan directly implements or furthers the intent of the following goals, objectives and policies of the General Plan:

ECONOMIC DEVELOPMENT ELEMENT

Goal ED1: To create in El Segundo a strong, healthy economic community in which all diverse stakeholders may benefit.

Objective ED1-1 To build support and cooperation among the City of El Segundo and its business and residential communities for the mutual benefits derived from the maintenance and expansion of El Segundo's economic base.

Policy ED1-1.1: Maintain economic development as one of the City's and the business and residential communities' top priorities.

Policy ED1-2.1: Seek to expand El Segundo's retail and commercial base so that the diverse needs of the City's business and residential communities are met.

Policy ED1-2.2: Maintain and promote land uses that improve the City's tax base, balancing economic development and quality of life goals.

LAND USE ELEMENT

Policy LU1-5.8: Innovative land development and design techniques as well as new materials and construction methods should be encouraged.

Goal LU3: Promote the health, safety, and well-being of the people of El Segundo by adopting standards for the proper balance, relationship, and distribution of the residential land uses.

Objective LU3-1: Preserve, protect, and extend, if possible, existing Single-Family Residential uses.

Policy LU3-2.1: Promote construction of high quality Multi-Family Residential development with ample open space, leisure and recreational facilities.

Policy LU3-2.2: Multi-family development will be located only in appropriate places and evaluated carefully to insure that these developments are not detrimental to the existing single-family character.

Objective LU3-3.1: Adopt and enforce recreational area requirements for large multiple unit developments.

Goal LU4: Provide a stable tax base for the City through development of new commercial uses, primarily within a mixed-use environment, without adversely affecting the viability of Downtown.

Objective LU4-1: Promote the development of high quality retail facilities in proximity to major employment centers.

Policy LU4-1.1: Require landscaping, its maintenance, and permanent upkeep on all new commercial developments.

Policy LU4-1.2: All commercial facilities shall be built and maintained in accordance with Health and Safety Code requirements and shall meet seismic safety regulations and environmental regulations.

Policy LU4-1.4 New commercial developments shall meet seismic safety standards and regulations, as well as comply with all noise, air quality, water and environmental regulations.

Objective LU4-4: Provide areas where development has the flexibility to mix uses, in an effort to provide synergistic relationships which have the potential to maximize economic benefit, reduce traffic impacts, and encourage pedestrian environments.

Policy LU4-4.6: Promote mixed-use development near transit nodes and encourage modes of transportation that do not require an automobile.

Goal LU7: Provide the highest quality public facilities, services, and public infrastructure possible to the community.

Policy LU7-1.2: No new development shall be allowed unless adequate public facilities are in place or provided for.

Policy LU7-2.3: All new development shall place utilities underground.

CIRCULATION ELEMENT

Goal C1: Provide a safe, convenient, and cost-effective circulation system to serve the present and future circulation needs of the El Segundo community.

Objective C1-1: Provide a roadway system that accommodates the City's existing and project land use and circulation needs.

Policy C1-1.8: Provide all residential, commercial, and industrial areas with

efficient and safe access to the major regional transportation facilities.

Policy C1-1.9: Provide all residential, commercial, and industrial areas with efficient and safe access for emergency vehicles.

Policy C1-1.14: Require a full evaluation of potential traffic impacts associated with proposed new developments prior to project approval. Further require the implementation of appropriate mitigation measures prior to, or in conjunction with project development. Mitigation measures may include new roadway links on segments that would connect the new development to the existing roadway system, intersection improvements, and other measures. Mitigation measures shall be provided by or paid for by the project developer.

Objective C1-3: Ensure that the City's Master Plan Truck Route System efficiently serves the shipping needs of the commercial and industrial land uses in El Segundo while balancing potential conflicts with residential and recreation land uses throughout the City.

Policy C1-3.2: Ensure that the development review process incorporates consideration of off-street commercial loading requirements for all new projects.

Objective C2-1: Provide a pedestrian circulation system to support and encourage walking as a safe and convenient travel mode within the City's circulation system.

Policy C2-1.6: Encourage shopping areas to design their facilities for ease of pedestrian access.

Policy C2-1.7: Closely monitor design practices to ensure a clear pedestrian walking area by minimizing obstructions, especially in the vicinity of intersections.

Objective C2-2: Provide a bikeway system throughout the City to support and encourage the use of the bicycle as a safe and convenient travel mode within the City's circulation system.

Policy C2-2.1: Implement the recommendations on the Bicycle Master Plan contained in the Circulation Element, as the availability arises; i.e., through development, private grants, signing of shared routes.

Policy C2-2.2: Encourage new development to provide facilities for bicyclists to park and store their bicycles and provide shower and clothes changing facilities at or close to the bicyclist's work destination.

Policy C2-5.1: Ensure that Transportation Demand Management (TDM) measures are considered during the evaluation of new developments within the City, including but not limited to ridesharing, carpooling and vanpooling, flexible work schedules, telecommuting and car/vanpool preferential parking.

Policy C3-1.8: Require the provision of adequate pedestrian and bicycle access for new development projects through the development review process.

Policy C3-2.1: Ensure the provision of sufficient on-site parking in all new development.

HOUSING ELEMENT

Goal 3: Provide opportunities for new housing construction in a variety of locations and a variety of densities in accordance with the land use designations and policies in the Land Use Element.

OPEN SPACE AND RECREATION ELEMENT

Goal OS1: Provide and maintain high quality open space and recreational facilities that meet the needs of the existing and future residents and employees within the City of El Segundo.

CONSERVATION ELEMENT

Policy CN2-5: Require new construction and development to install water-conserving fixtures and appliances to reduce the amount of new demand.

Policy CN2-7: Require new construction and development to incorporate the principles and practices of sound landscape design and management, particularly those conserving water and energy.

Policy CN2-8: Encourage the retrofitting of existing landscapes to incorporate the principles and practices of sound landscape design and management, particularly those conserving water and energy.

Policy CN2-11: Encourage, whenever appropriate and feasible, development techniques which minimize surface run-off and allow replenishment of soil moisture. Such techniques may include, but not be limited to, the on-site use and retention of storm water, the use of pervious paving material (such as walk-on-bark, pea gravel, and cobble mulches), the preservation of vegetative covers, and efficiently designed and managed irrigation systems.

AIR QUALITY ELEMENT

Goal AQ3: Vehicle work trip reduction for private employees.

Objective AQ-3-1: Increase the proportion of work trips made by transit.

Goal AQ12: Reduction in Residential, Commercial, and Industrial Energy Consumption.

Objective AQ-12-1: Enact the recommendations of the AQMP Energy Working Group for commercial and residential buildings and adopt ordinances to mitigate air quality impacts from water and pool heating systems.

Policy AQ-12-1.2: It is the policy of the City of El Segundo that the City encourage the incorporation of energy conservation features in the design of new projects and the installation of conservation devices in existing developments.

NOISE ELEMENT

Goal N1: Encourage a high quality environment within all parts of the City of El Segundo where the public's health, safety, and welfare are not adversely affected by excessive noise.

Objective N1-1: It is the objective of the City of El Segundo to ensure that City residents are not exposed to mobile noise levels in excess of the interior and exterior noise standards or the single event noise standards specified in the El Segundo Municipal Code.

Objective N1-2: It is the objective of the City of El Segundo to ensure that City residents are not exposed to stationary noise levels in excess of El Segundo's Noise Ordinance standards.

Policy N1-2.1: Require all new projects to meet the City's Noise Ordinance Standards as a condition of building permit approval.

Program N1-2.1A: Address noise impacts in all environmental documents for discretionary approval projects, to insure that noise sources meet City Noise Ordinance standards. These sources may include mechanical or electrical equipment, truck loading areas, or outdoor speaker systems.

PUBLIC SAFETY ELEMENT

Goal PS1: Protect the public health and safety and minimize the social and economic impacts associated with geologic hazards.

Objective PS1-1: It is the objective of the City of El Segundo to reduce exposure to potentially hazardous geological conditions through land use planning and project review.

Policy PS1-1.1: Continue to review proposals for new development and for the expansion of existing development in areas of potential geological hazards.

Program PS1-1.1A: The City shall review projects to ensure that slope design considers the potential effects of high rainfall, private sewage systems, landscaping irrigation, and possible runoff from adjacent future development.

Policy PS1-1.2: Enforce, monitor and improve development standards which place the responsibility on the developer, with advice from qualified engineers and geologists, to develop and implement adequate mitigation measures as conditions for project approval.

Program PS1-1.2A: The City shall review projects to ensure that adequate geotechnical investigation has been completed in areas susceptible to landsliding and debris flows and in areas where collapsible or expansive soils occur, and to approve only those which mitigate these hazards to the satisfaction of the City Engineer.

Policy PS2-1.2: The City shall assist in the prevention of structural damage in areas with a high potential for liquefaction, landslides, and mudslides by requiring geotechnical studies for new development to mitigate potential impacts.

Goal PS6: A fire safe community.

Objective PS6-1: It is the objective of the City of El Segundo that the City minimize threats to public safety and protect property from

wildland and urban fires.

Policy PS6-1.1: Review projects and development proposals, and upgrade fire prevention standards and mitigation measures in areas of high urban fire hazard.

Policy PS6-1.2: Continue efforts to reduce fire hazards associated with older buildings, high-rise buildings, and fire-prone industrial facilities, and maintain adequate fire protection in all areas of the City. Review projects and development proposals, and upgrade fire prevention standards and mitigation measures in areas of high urban fire hazard.

Program PS6-1.2C: The City shall continue to require that all property be maintained in compliance with the fire code.

Goal PS7: Protect public health, safety, and welfare, and minimize loss of life, injury, property damage, and disruption of vital services, resulting from earthquakes, hazardous material incidents, and other natural and man-made disasters.

D. ENTITLEMENTS

The following entitlements are required in conjunction with this Specific Plan (SP No. 19-01):

- Environmental Assessment No. EA-1248 for the proposed mixed-use development that will add 263 housing units, approximately 11,250 square feet of commercial uses (comprised of retail, restaurant and hotel support based office uses), and 1,727 square feet of commercial floor area that cannot be occupied by commercial businesses[1], and three parking structures to provide parking for the uses in the Specific Plan area.

- General Plan Amendment No. GPA 19-01 to change the land use designation from "General Commercial" and "Parking" to "Pacific Coast Commons Specific Plan (PCCSP)" with an accompanying Land Use map change.

- Zone Text Amendment No. ZTA 19-08 to add a new ESMC §15-3-2(A)(11) "Pacific Coast Commons Specific Plan (PCCSP)."

- Zone Change No. ZC 19-01 to rezone the property from "General Commercial (C-3)" and "Parking (P)" to "Pacific Coast Commons Specific Plan (PCCSP)" and an accompanying Zoning map change.

[1] This commercial floor area is located in the Fairfield Parking Site and is comprised of lobby area and access to the multiple levels of the parking structure and any central circulation areas such as hallway access from the rear of commercial businesses to the lobby and parking structure that is not usable floor area located within those commercial businesses. This square footage is labeled as lobby area in Table III-II in this Plan.

- Development Agreement No. DA 19-02 between the City of El Segundo and BRE El Segundo Property Owner A LLC, BRE El Segundo Property Owner B LLC, and BRE El Segundo Parking LLC.

- Vesting Tentative Tract Map No. (VTTM 82806) SUB 19-03 – for merger, subdivision and residential/commercial condominium purposes reconfiguring 3 parcels (comprised of 12 existing lots) on the block bounded by Pacific Coast Highway, Mariposa Avenue, Indiana Street and Holly Avenue and 3 parcels (comprised of portions of 4 existing lots) on the block north of Mariposa Avenue and south of Palm Avenue in the Specific Plan Area into 6 new individual lots. Additionally, the Vesting Tentative Tract Map No. 82806 will allow: a) 1 residential ground and airspace parcel for 120 apartments and a maximum of 10 airspace parcels for commercial condominiums on Lot 1; b) a ground and airspace parcel for the parking structure and up to a maximum of 10 airspace parcels for commercial condominiums on Lot 4; and c) 1 residential ground and airspace parcel for 137 apartments and up to a maximum of 20 airspace parcels for commercial condominiums on Lot 5; and d) 6 residential condominiums (townhomes) on Lot 6.

- Site Plan Review No. SPR 19-01 to allow the site plan and architectural design to construct the mixed-use commercial and residential development for the 263 residential units, 11,252 square feet of new commercial development, 1,727 square feet of commercial floor area that cannot be occupied by commercial businesses[2], and 3 parking structures.

- Modification of Resolution Nos. 2759 and 2760 to rescind the previous approvals SUB No. 14-05, Lot-Tie Covenant No. 14-03, Off-site Parking Covenant Nos. MISC 14-03 and 14-06, leaving in place CUP No. 14-01 for the Fairfield Inn and Suites Hotel and CUP No. 14-02 for the Aloft Hotel, along with alcohol service at both hotels with modifications to the conditions of approval accordingly.

- Parking Demand Study and Shared Parking Analysis to establish the parking requirements for the proposed commercial and residential development combined with the existing hotel development.

- Shared Parking Agreement in conjunction with the Parking Demand Study and Shared Parking Analysis, to replace the previous approval of Off-Site Parking Covenant Nos. MISC 14-03 and MISC 14-06.

- Reciprocal Access Agreements for driveways and drive aisles accessing multiple parcels.

[2] This commercial floor area is located in the Fairfield Parking Site and is comprised of lobby area and access to the multiple levels of the parking structure and any central circulation areas such as hallway access from the rear of commercial businesses to the lobby and parking structure that is not usable floor area located within those commercial businesses. This square footage is labeled as lobby area in Table III-II in this Plan.

- Street dedication waiver requests for a portion of the dedication requirements for the south side of Mariposa Avenue and for a portion of the dedication requirements for the east side of Indiana Street.

Findings justifying the General Plan Amendment and Zone Change include:

1. The primary objective of the Specific Plan is to provide for superior, more comprehensive site planning of the Specific Plan area and zoning standards that address the needs of the unique master planned site that will maintain the existing hotel uses and construct new mixed-use multiple-family residential and commercial neighborhood serving uses in three phases.

2. Uses permitted within the Specific Plan area are consistent with the proposed zoning and are compatible with adjacent uses.

3. The Specific Plan will provide for additional housing opportunities in a variety of housing sizes, types and densities in support of the goals of the Housing Element of the General Plan.

E. EXISTING LAND USES

The City of El Segundo has distinctive land use patterns, which are divided into four quadrants by the intersection of Pacific Coast Highway and El Segundo Boulevard. Compatibility of an individual land use is determined mainly by its relationship to other uses within its quadrant. The Pacific Coast Commons Specific Plan area is located in the northwestern quadrant of the City of El Segundo, which is west of Pacific Coast Highway and north of El Segundo Boulevard. The design and implementation of this Specific Plan relate directly to its position within this larger context.

The Pacific Coast Commons Specific Plan is located in the northwest quadrant of the City. The northwest quadrant of the City has the most varied mix of uses within the City. All of the City's residential units, the Downtown area, the Civic Center, the commercial uses and hotel uses along the west side of the Pacific Coast Highway corridor and the industrial area of Smoky Hollow, are located in this quadrant.

The northeast quadrant of the City lies east across Pacific Coast Highway and north of El Segundo Boulevard. It consists primarily of corporate office and urban mixed uses which allow for office and commercial uses. The southwest quadrant of the City lies south of El Segundo Boulevard and west of Pacific Coast Highway. It consists primarily of an oil refinery/heavy industrial use. The southeast quadrant of the City lies south of El Segundo Boulevard and east of Pacific Coast Highway. It consists primarily of the light industrial land use category which allows a mixture of industrial and office uses. This quadrant also contains a commercial region which is home to the retail developments of Plaza El Segundo and the Point, which are both lifestyle commercial retail shopping centers that total approximately 500,000 square feet and the Lakes Municipal Golf Course. A Multimedia Overlay Zone overlies both the southeast and northeast quadrants of the City.

Before the adoption of the Pacific Coast Commons Specific Plan (PCCSP) the property was designated as General Commercial and Parking in the General Plan Land Use Element with General Commercial (C-3) and Parking (P) zoning.

Adjacent land uses include the following:

North: The adjacent land uses to the north include: a fast food restaurant, a vacant restaurant and parking lot, and multi-family residential uses. A gas station is located on the northwest corner of Mariposa Avenue and Pacific Coast Highway which is north of the superblock that contains the two existing hotels and south east of the parking lot for the Fairfield Inn and Suites Hotel located along Pacific Coast Highway between Mariposa and Palm Avenues. A fast-food restaurant, Carl's Jr., is located northeast of the same parking lot. Carl's Jr. is located at the southwest corner of Pacific Coast Highway and Palm Avenue.

East: The adjacent land uses to the east across Pacific Coast Highway include: a property with restaurants and office uses, a Ralphs market, two commercial shopping centers with retail and restaurant uses, and a 6- story office building.

South: The adjacent land uses to the south of Holly Avenue include a small commercial shopping center with a drug store, bank, two restaurants and retail store.

West: The adjacent land uses to the west include multi-family residential uses.

III. LAND USE PLAN

The Pacific Coast Commons Specific Plan encompasses 6.38 gross acres of existing developable area that includes the "superblock" bounded by Pacific Coast Highway, Mariposa Avenue, Holly Avenue and Indiana Street and a portion of the block to the north of the "superblock" that has frontage on Pacific Coast Highway, Mariposa Avenue to the south, and Palm Avenue to the north, see Exhibit 5, *Land Use Plan,* and Exhibit 6, *Conceptual Site Plan*. The Pacific Coast Commons Specific Plan ("PCCSP") has 5 land use districts within the plan boundary which is discussed in detail below.

Table III-I provides a Land Use Summary with the square footage of the new development and the existing development. Table III-II provides greater detail of the project development scenario with the uses on each Parcel (per the Vesting Tentative Map), the acreage of the parcel, the building area (gross and net), and the FAR.

The existing Aloft Hotel will remain. Two of the three buildings that comprise the existing Fairfield Inn & Suites Hotel will remain. The 41,660 square-foot, 2-story building at the southwest corner of Pacific Coast Highway and Mariposa Avenue commonly called the "Food and Beverage" building (primarily comprised of conference/meeting rooms and restaurant space) will be demolished and replaced with a parking structure that contains parking primarily for the Fairfield Inn and Suites Hotel and 3,273 gross square feet of new commercial uses at the front of the structure. Access to the parking structure occurs primarily from an existing driveway on Pacific Coast Highway.

The existing parking lot located at the south end of the PCCSP bounded by Holly Street to the south, Indiana Street to the west, Pacific Coast Highway to the east and the Aloft Hotel to the north will be replaced with new development. The new development will be a residential/commercial mixed-use project with a parking structure integrated into the building design. The new building will include 120 residential units (apartments) and 5,756 gross square feet of commercial uses. The parking structure will have access from existing driveways on Pacific Coast Highway and Indiana Street.

The existing northern parking lot that is on the block north of the Fairfield Inn and Suites Hotel with frontage on Pacific Coast Highway, bounded by Mariposa Avenue to the south and Palm Avenue to the north will be replaced with new development. The new residential/commercial mixed-use project will include 137 residential units (apartments) and 2,223 gross square feet of new commercial development. It will have a parking structure integrated into the building design with access to the structure from existing driveways on both Mariposa and Palm Avenues. The north parking lot site will also include 6 townhomes which are located directly west of the Carl's Jr. restaurant and south of Palm Avenue.

A. DEVELOPMENT CONCEPT

The Specific Plan establishes the general type, parameters and character of the development in order to develop an integrated Project area that is also compatible with and complements the surrounding area. The proximity of the Specific Plan Area to other residential and commercial

uses, freeways, major arterials, and the Metro Rail makes it an appropriate and attractive location for a residential/commercial mixed-use development that provides both housing and facilitates economic development in El Segundo.

The Pacific Coast Commons Specific Plan development concept provides a transition from the multi-family neighborhoods to the west and the large-scale commercial uses to the east of Pacific Coast Highway. The Pacific Coast Commons Specific Plan provides for both the maintenance of both the existing Aloft hotel and the Fairfield Inn and Suites hotel within the Specific Plan boundaries with the addition of new mixed-use residential/commercial development to complement the hotel uses and to provide compatible uses to the surrounding neighborhood. The development will include 3 parking structures incorporated into the development to provide both replacement parking for the hotels from the loss of surface parking as well as provide parking for new uses.

On an overall basis, the maximum development potential within the 6.23-acre (post dedications) Specific Plan is based upon an average floor area ratio (FAR) of 2.15. A 2.15 FAR results in a maximum development intensity of 622,398 gross square feet. The 622,398 gross square feet includes 282,398 gross square feet of existing development that will remain and 340,000 gross square feet of new square footage of residential and commercial uses combined. The floor area ratio varies in each of the 5 land use districts that range from a minimum of 0.16 to a maximum of 2.70 based upon how the uses are configured combined with the nonconforming conditions for the two existing hotels (see Table III-III).

Residential uses are proposed in 2 of the 5 land use districts, namely the PCC Mixed-Use 1 (PCC MU-1) district at the southern end of the Specific Plan area and the PCC Mixed-Use 2 (PCC MU-2) district at the northern end of the Specific Plan area. There are 120 dwelling units (apartments) in the PCC MU-1 land use district and 143 dwelling units in the PCC MU-2 land use district comprised of 137 apartments and 6 townhomes. The density in the PCC MU-1 land use district is approximately 97 dwelling units to the acre (96.67 dwelling units to the acre based upon 54,072 square feet of land area) and the density in the PCC MU-2 land use district is approximately 80 units to the acre (79.17 dwelling units to the acre based upon 78,686 square feet of land area). The average density of the two land use districts combined is 86.31 units to the acre and the average density within the entire Specific Plan area is 42.22 units to the acre. If the land area of either PCC Mixed-Use 1 or PCC Mixed-Use 2 is reduced, the number of dwelling units to the acre would increase accordingly.

The Pacific Coast Commons Specific Plan allows affordable housing and provides reduced requirements for parking in the Development Standards Chapter of this Specific Plan. The 263 residential units permitted in this Specific Plan including affordable housing units will contribute significantly to the City's housing allocation requirements specified in the Regional Housing Needs Assessment (RHNA) established by State law.

B. LAND USE PLAN

The Pacific Coast Commons Specific Plan is based upon the following land uses (refer to Exhibit 5, *Land Use Plan*):

1. PCC Mixed-Use 1 (PCC MU-1)

The PCC Mixed-Use 1 (PCC MU-1) land use designation is located on the southernmost parcel with frontage on Pacific Coast Highway, Holly Avenue and Indiana Street, totaling 1.242 net acres (the developable portion of the proposed parcel after dedication of right-of-way). It is both a corner parcel and a through lot. The PCC MU-1 area allows for multiple-family residential uses (apartments) and several commercial uses. The specific residential and commercial uses are limited in this land use category as specified in the Specific Plan's development regulations. The parcel that contains the PCC Mixed-Use 1 (PCC MU-1) land use district currently contains the parking lot for the Aloft hotel that is located on the adjacent parcel, as shown in the conceptual site plan in Exhibit 6, *Conceptual Site Plan*.

2. PCC Commercial-1 (PCC COM-1)

The Commercial-1 (COM-1) land use designation is located on the parcel to the north of the PCC Mixed-Use 1 (PCC MU-1) land use designation with frontage on both Pacific Coast Highway and Indiana Street (it is a through lot). The PCC Commercial-1 (PCC COM-1) land use category totals 0.905 net acres (the developable portion of the proposed parcel after dedication of right-of-way). The PCC Commercial-1 (PCC COM-1) area allows hotels and several other commercial uses that are either accessory to hotel uses or complementary uses. The specific commercial uses in this land use category are specified in the Specific Plan's development regulations. The parcel currently contains the existing Aloft Hotel which will remain, as shown in the conceptual site plan in Exhibit 6, *Conceptual Site Plan*.

3. PCC Commercial-2 (PCC COM-2)

The PCC Commercial-2 (PCC COM-2) land use designation is located on the parcel to the north of the PCC Commercial-1 (PCC COM-1) land use designation with frontage on both Pacific Coast Highway and Indiana Street (it is a through lot). The PCC Commercial-2 (PCC COM-2) land use category totals 1.549 net acres (the developable portion of the proposed parcel after dedication of right-of-way). The PCC Commercial-2 (PCC COM-2) area allows hotels and several other commercial uses that are either accessory to hotel uses or complementary uses. The permitted commercial uses in this land use category are specified in the Specific Plan's development regulations. The parcel currently contains the existing Fairfield Inn and Suites hotel (3 buildings) which will remain, as shown in the conceptual site plan in Exhibit 6, *Conceptual Site Plan*. One of the three existing buildings known as the "Food and Beverage" building which is partially located in the PCC COM-2 land use district and partially located in the PCC COM-3 land use district will be demolished.

4. PCC Commercial-3 (PCC COM-3)

The PCC Commercial-3 (PCC COM-3) land use designation is located on the parcel to the

north of the PCC Commercial-2 (PCC COM-2) land use designation with frontage on Pacific Coast Highway, Mariposa Avenue, and Indiana Street (it is a through lot). The PCC Commercial-3 (PCC COM-3) land use category totals 0.728 net acres (the developable portion of the proposed parcel after dedication of right-of-way). The PCC Commercial-3 (PCC COM-3) area allows hotels and several other commercial uses that are either accessory to hotel uses or complementary uses. The specific commercial uses in this land use category are specified in the Specific Plan's development regulations. The parcel currently contains the existing Fairfield Inn and Suites hotel food and beverage building that will be demolished and replaced with other commercial uses and a parking structure, as shown in the conceptual site plan in Exhibit 6, *Conceptual Site Plan*.

5. PCC Mixed-Use 2 (PCC MU-2)

The PCC Mixed-Use 2 (PCC MU-2) land use designation is located on the northernmost parcel with frontage on Pacific Coast Highway, Mariposa Avenue and Palm Avenue, totaling 1.806 net acres (the developable portion of the proposed parcels after dedication of right-of-way). The PCC MU-2 area allows for multiple-family residential (apartments and condominiums) and several commercial uses. The specific residential and commercial uses are limited in this land use category as specified in the Specific Plan's development regulations. The parcel currently contains a parking lot that provides parking for the Fairfield Inn and Suites. The parking lot will be demolished and replaced with multiple-family residential uses (a mix of apartments and townhomes) and commercial uses, as shown in the conceptual site plan in Exhibit 6, *Conceptual Site Plan*. The PCC Mixed-Use 2 (PCC MU-2) land use district is proposed to be comprised of 2 parcels as shown in the Vesting Tentative Map with one parcel containing 137 multiple family residential units (apartments) and commercial uses. The other parcel contains 6 townhomes (condominium units).

Table III-1, *Land Use Summary-Project Development Scenario*, and Table III-II, *Land Uses-Project Development Scenario,* show the anticipated project development scenario for the implementation of the uses and standards of this Specific Plan based upon the Conceptual Site Plan shown in Exhibit 6, *Conceptual Site Plan* and the Vesting Tentative Map shown in Exhibit 7A, *Vesting Tentative Map No. 82806*. An additional exhibit is provided for greater clarity of existing and proposed lot configuration conditions which is also provided in Exhibit 7B, *Existing and Proposed Lot Configuration Diagram.* Table III-III, *Land Use Summary-Specific Plan Scenario* shows the maximum allowable floor area for each of the 5 land use districts.

Table III-1
Land Use Summary – Project Development Scenario

Land Use	Building Area (Net) (square feet)	Building Area (Gross) (square feet)
New Development		
Multi-family Residential (Apartments) (120 dwelling units in the PCC MU-1 District)	136,571	140,794
Multi-family Residential (Apartments) (137 dwelling units in the PCC MU-2 District)	159,062	163,472
Multi-family Residential (Townhomes /Condominiums) (6 dwelling units in the PCC MU-2 District)	9,540	10,344
Commercial uses (PCC MU-1 District)	5,583	5,756
Commercial uses (PCC COM-3 District)	4,345	4,479
Commercial uses (PCC MU-2 District)	2,156	2,223
Subtotal New Development	***317,257***	***327,068***
Existing Development		
Hotel (Aloft)	98,741	106,747
Hotel (Fairfield Inn and Suites)	190,026	217,311
Subtotal Existing Development	***288,767***	***324,058***
Existing Development To Be Demolished (Fairfield Inn and Suites "Food and Beverage" Building)	***- 36,605***	***- 41,660***
Subtotal Existing Development After Demolition of "Food and Beverage" Building	***252,162***	***282,398***
Total Site Development	**569,419**	**609,466**

Table III-II
Land Uses – Project Development Scenario

Subdivision Parcel	Use	Acreage[3]	Building Area (Net)	Building Area (Gross)[4]	FAR[5]
PCC Mixed-Use 1 (PCC MU-1))					
1	Multiple-family Residential (120 apartments)		136,571	140,794	-
1	Commercial Uses		5,583	5,756	-
1	Parking Structure		-	-	-
Subtotal		**1.242 (54,072 square feet)**	**142,154**	***146,550***	***2.63***
PCC Commercial-1 (PCC COM-1)					
2	Commercial – Existing Hotel (Aloft)		98,741	106,747	-
Subtotal		**0.905 (39,425 square feet)**	**98,741**	***106,747***	***2.51***
PCC Commercial-2 (PCC COM-2))					
3	Commercial-Existing Hotel (Fairfield Inn and Suites)		190,026	217,311	-
4	Existing Hotel (Fairfield Inn & Suites - Food & Beverage Building)		-36,605	-41,660	-
Subtotal		**1.549 (67,487 square feet)**	**153,421**	***175,651***	***2.28***
PCC Commercial-3 (PCC COM-3)					
4	Commercial Uses		3,175	3,273	-
4	Parking structure/ lobby		1,170	1,206	-
Subtotal		**0.728 (31,693 square feet)**	**4,345**	***4,479***	***0.14***
PCC Mixed-Use 2 (PCC MU-2)					
5	Multiple-family Residential (137 apartments)		159,062	163,472	-
5	Commercial Uses		2,156	2,223	-
5	Parking Structure		-	-	-
6	Multiple-family Residential (6 townhomes)		9,540	10,344	-
Subtotal		**1.806 (78,686 square feet)**	**170,758**	***176,039***	***2.24***
TOTAL DEVELOPMENT		**6.23 (271,363**	**569,419**	**609,466**	**2.15**

[3] Acreage is based upon net acreage post dedications.
[4] Total allowable intensity per the Specific Plan is capped at 622,398 gross square feet (both existing and new development combined).
[5] FAR calculation is based upon net floor area and developable lot area. See Chapter VI for definitions of gross and net floor area.

		square feet)			

Table III-III
Land Use Summary – Specific Plan Scenario

Land Use District	Building Area (Net) (square feet)	Building Area (Gross) (square feet)	Floor Area Ratio (FAR)
PCC Mixed-Use-1 (PCC MU-1)	145,500	150,000	2.70
PCC Commercial-1 (PCC COM-1)	98,741	106,747	2.51
PCC Commercial-2 (PCC COM-2)	153,421	175,651	2.28
PCC Commercial-3 (PCC COM-3)	4,850	5,000	0.16
PCC Mixed-Use-2 (PCC MU-2)	179,450	185,000	2.29
Total Development (New + Existing)	**581,962**	**622,398**	**2.15**



EXHIBIT 5
LAND USE PLAN

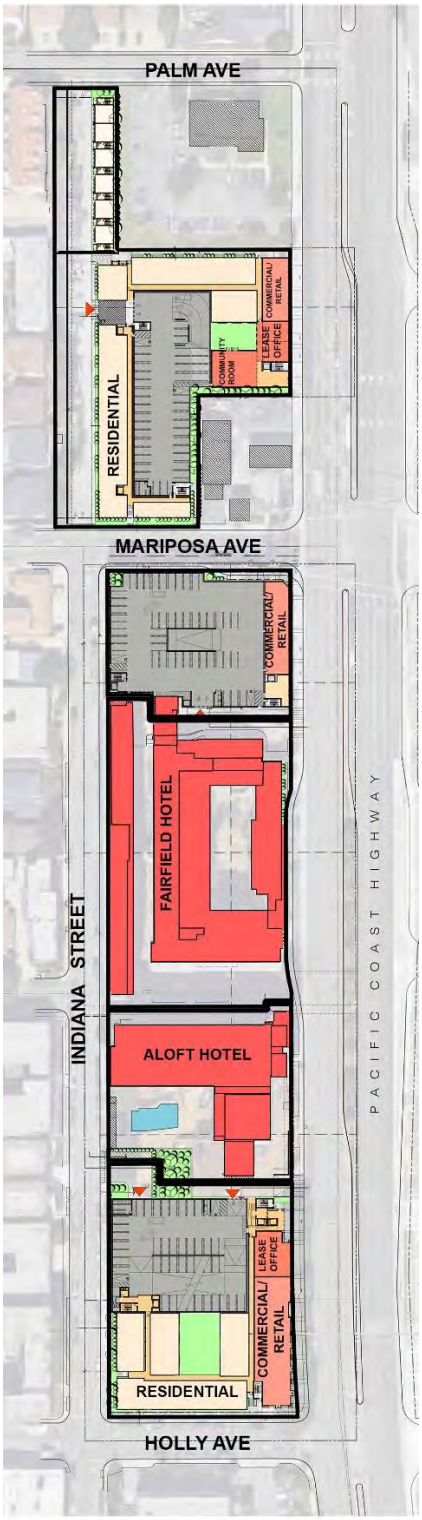


EXHIBIT 6
CONCEPTUAL SITE PLAN

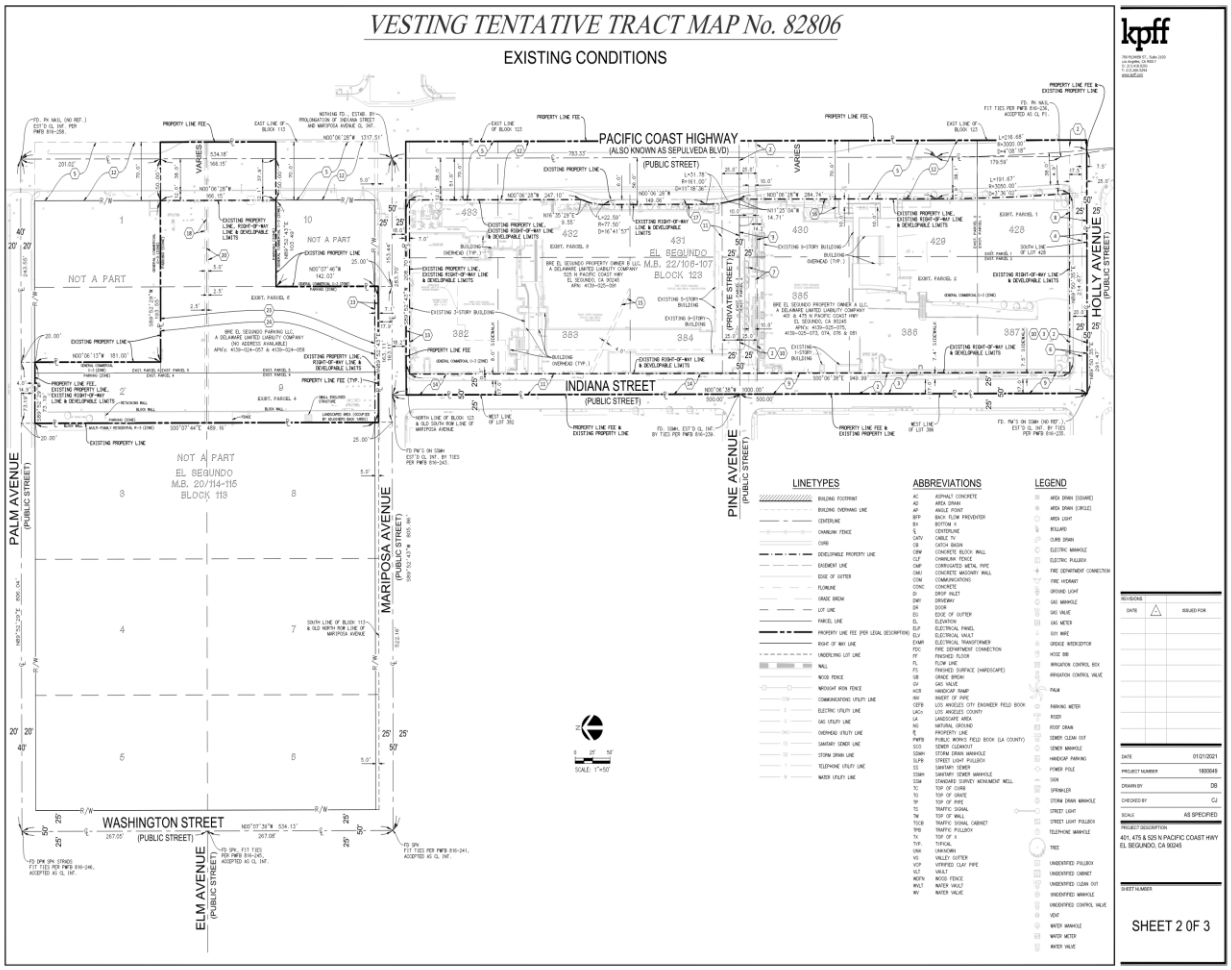


EXHIBIT 7A
VESTING TENTATIVE MAP # 82806
(EXISTING CONDITIONS)

(Source: KPFF)

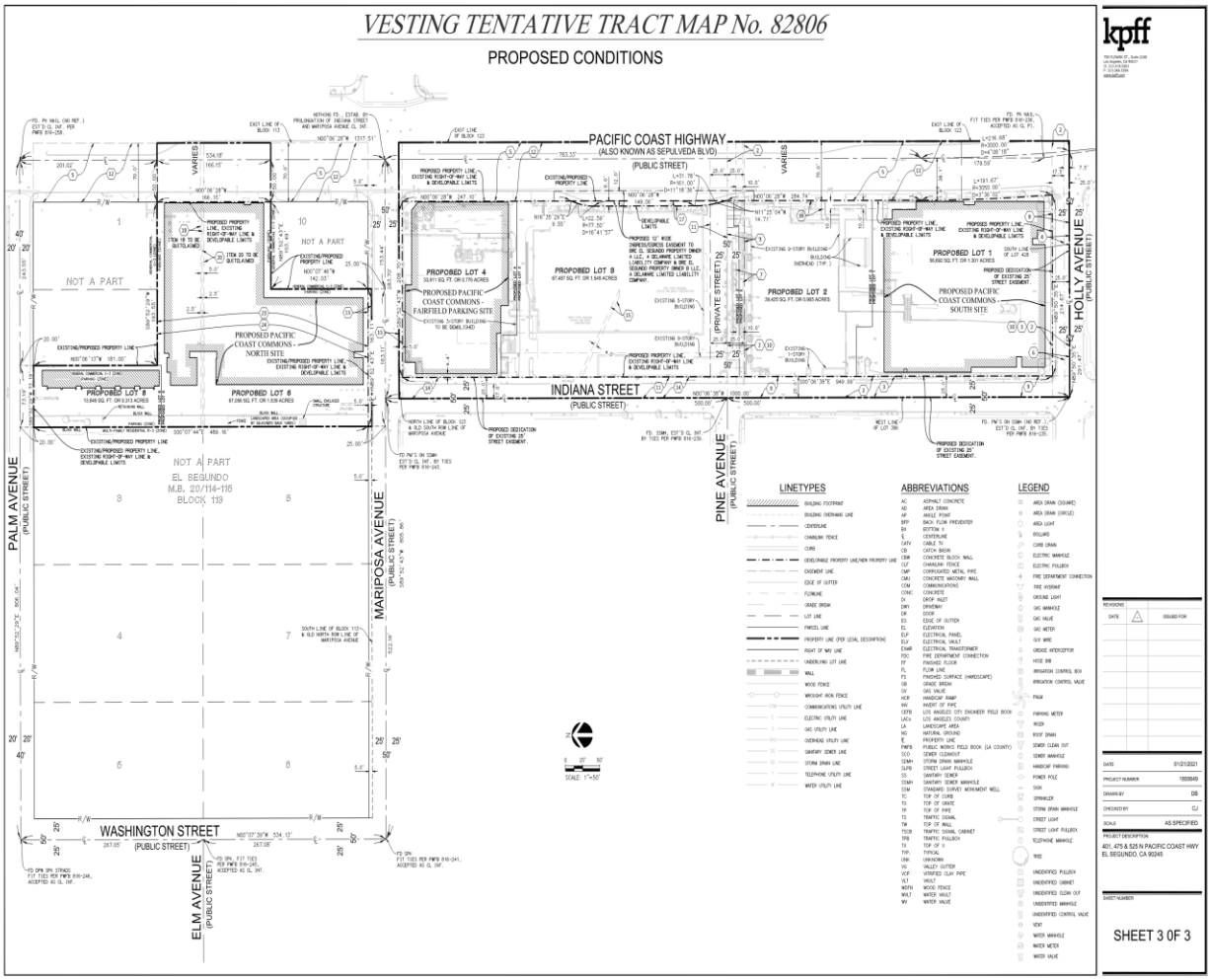


EXHIBIT 7A
VESTING TENTATIVE MAP # 82806
(PROPOSED CONDITIONS)

(Source: KPFF)

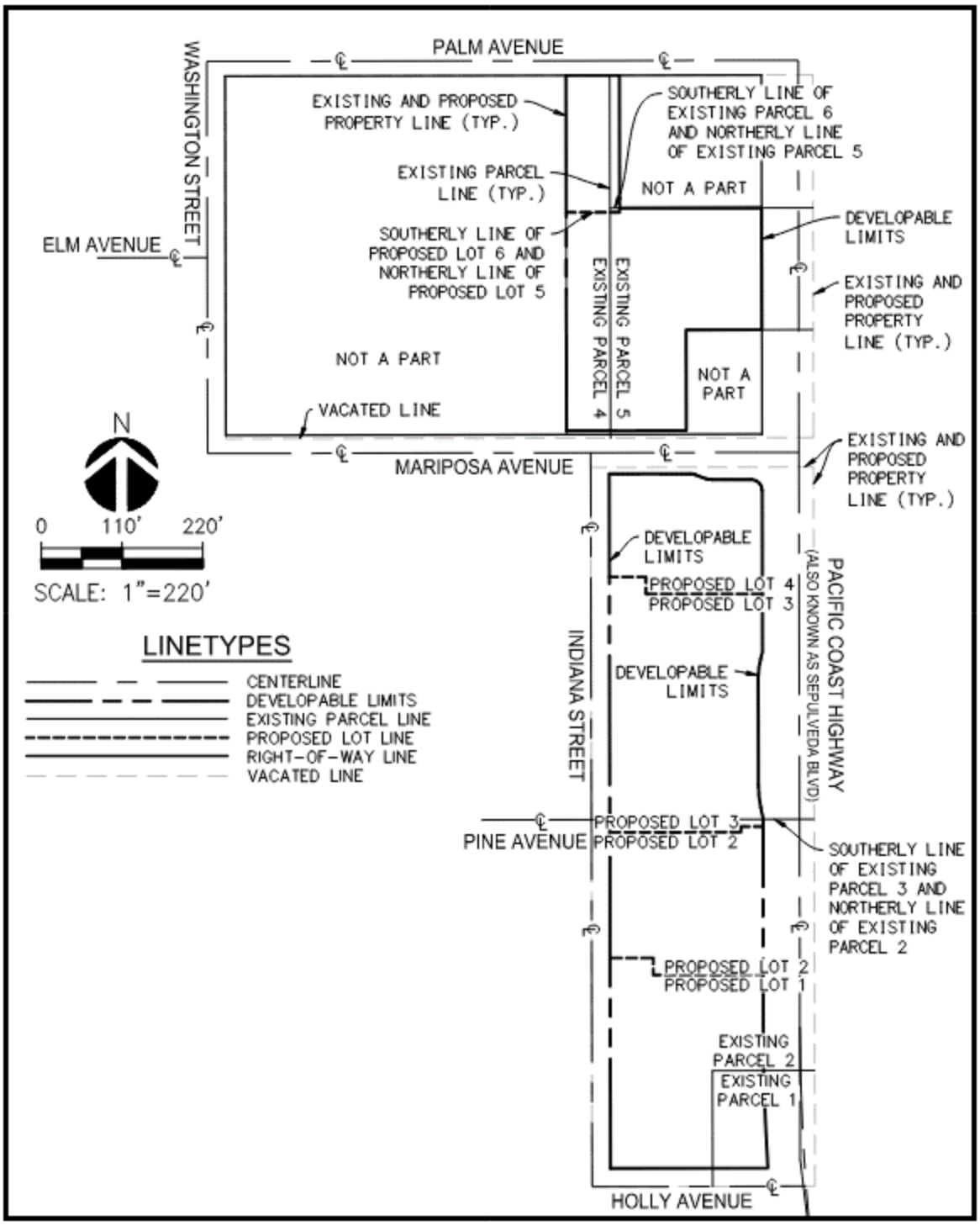


EXHIBIT 7B
EXISTING AND PROPOSED FINAL LOT CONFIGURATION DIAGRAM
(Source: KPFF)

C. PHASING

Construction of the new development areas would occur in three phases. The first phase of construction would occur in the PCC Commercial-3 (PCC COM-3) land use district at the Fairfield Parking Site/Area 4. The second phase of construction would consist of the South Site/Area 1 development in the PCC Mixed-Use 1 (PCC MU-1) land use district. The third phase of construction would consist of the North Site/Area 5 development in the PCC Mixed-Use 2 (PCC MU-2) land use district. It is currently anticipated that these phases will occur sequentially and if so, are anticipated to be completed within 4 1/2 years of EIR certification and project approval. However, if the second and third phases of development occur concurrently, construction is anticipated to be completed within 2 years and 8 months of EIR certification and project approval.

D. CIRCULATION PLAN

Regionally, the Specific Plan site is accessible from the San Diego freeway (405), Century Freeway (105), the Metro Green Line, multiple bus lines, and the major arterial Pacific Coast Highway. No public rights-of-way are proposed within the boundaries of the Specific Plan. However, the Specific Plan site has several vehicular access points off four of the streets surrounding the Specific Plan area including Pacific Coast Highway, Mariposa Avenue, Indiana Street and Palm Avenue. The development of the Specific Plan will facilitate on-site circulation and parking. Access will be provided for emergency vehicles to Area 5 in the PCC Mixed-Use 2 (PCC MU-2) land use district via the two vehicle access points to the fire lane from Mariposa and Palm Avenues. Development within the Specific Plan site will provide infrastructure and facilitate access for various modes of travel including automobiles, bicycles, and pedestrians. Pedestrian and handicap access will be provided between buildings and to public sidewalks on the five street frontages along the site.

VEHICULAR CIRCULATION

The proposed street dedications and street dedication waivers discussed in the sections below are depicted in Exhibit 7C, *Conceptual Street Dedication Plan.*

Pacific Coast Highway. Pacific Coast Highway is an existing public major arterial street that abuts the property on its eastern edge. No additional right-of-way improvements are required as a result of the development allowed in the Specific Plan. No additional curb cuts besides the three existing curb cuts that provide access and circulation to the two existing hotels may be allowed along Pacific Coast Highway in the Specific Plan area. The two existing driveways that access the north parking lot at 629 North Pacific Coast Highway will be removed.

Mariposa Avenue. Mariposa Avenue is an existing public 2-lane collector street that abuts the property between the northern and southern blocks of the Specific Plan area. Some additional right-of-way improvements are required as a result of the development allowed in the Specific Plan. A waiver request was granted for a portion of the street dedication requirements on the south side of Mariposa Avenue. No additional curb cuts besides the one existing curb cut on the north side of the street (which also serves as a fire lane) may be allowed along the north side of

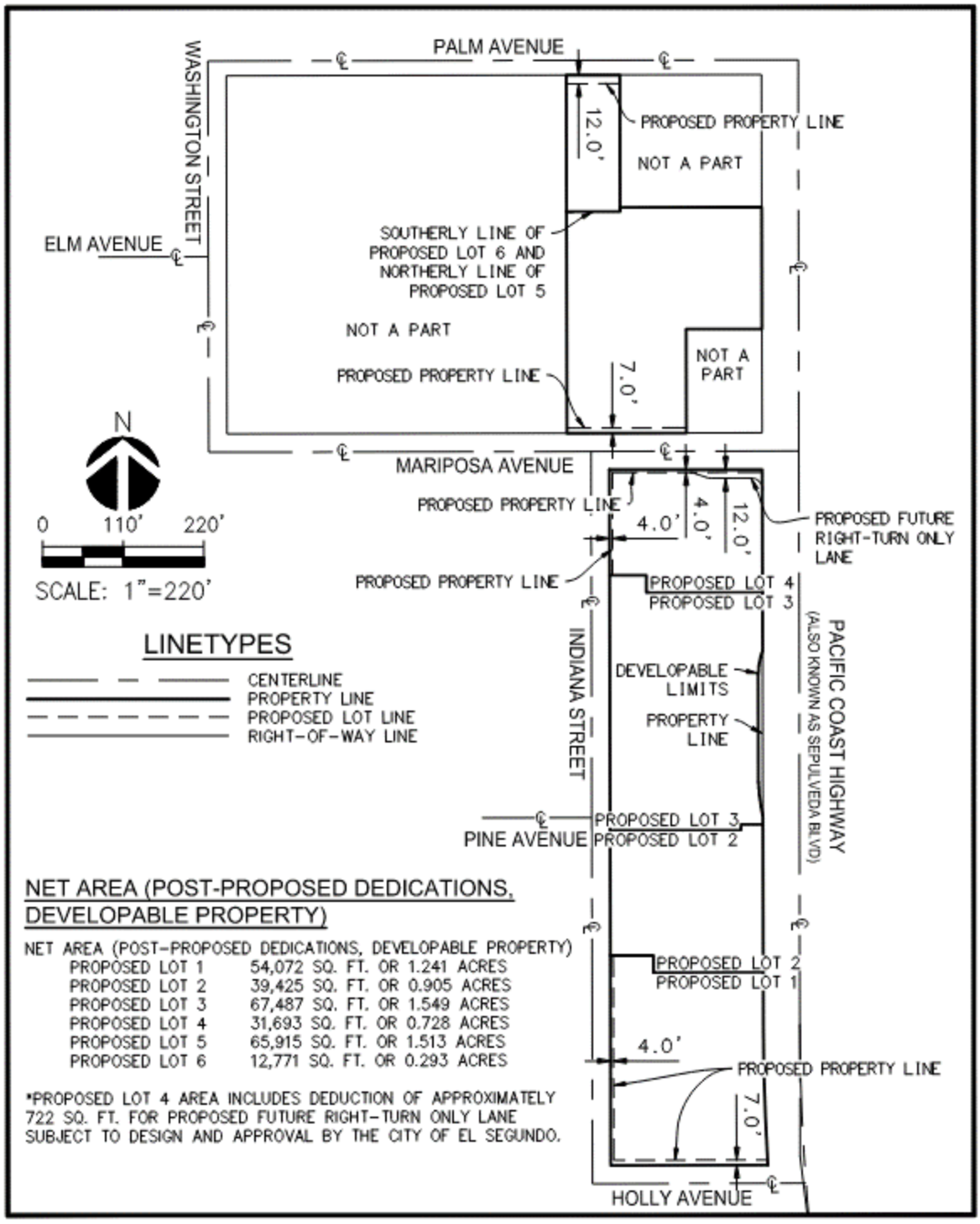


EXHIBIT 7C
CONCEPTUAL STREET DEDICATION PLAN
(Source: KPFF)

Mariposa Avenue in the Specific Plan area. No curb cuts may be allowed along the south side of Mariposa Avenue within the Specific Plan area.

Palm Avenue. Palm Avenue is an existing public local commercial/residential street that abuts the property on its northern edge. Palm Avenue has been classified as a local commercial street for the frontage of the Specific Plan area. Some additional right-of-way improvements are required as a result of the development allowed in the Specific Plan. No additional curb cuts besides the one existing curb cut (which also serves as a fire lane) may be allowed along Palm Avenue within the Specific Plan area. Street dedication to expand the width of the public right-of-way will be provided.

Holly Avenue. Holly Avenue is an existing public local commercial/residential street that abuts the property on its southern edge. Holly Avenue is classified as a local commercial street for the block fronting the Specific Plan area. Some additional right-of-way improvements are required as a result of the development allowed in the Specific Plan. There are no existing curb cuts along this block of Holly Avenue. No curb cuts may be allowed along Holly Avenue in the Specific Plan area. Street dedication to expand the width of the public right-of-way will be provided.

Indiana Street. Indiana Street is an existing public local commercial/residential street that abuts the property on its western edge. Some additional right-of-way improvements are required as a result of the development allowed in the Specific Plan. The project includes dedication of 25 feet of existing roadway and sidewalk (to the centerline of the street) to the City of El Segundo. Currently, the roadway and sidewalk are privately owned and the City of El Segundo only has easement rights. An additional dedication of 4 feet will be provided on the east side of the street along the frontage of Proposed Lots 1 and 4 only. A waiver request was granted for a 3-foot portion of the street dedication requirements to expand the right-of-way on the east side of the street for the portions of the block where new development is proposed in the PCC COM-3 and a the PCC MU-1 land use districts (along the frontage of proposed Lots 1 and 4). Additionally, a waiver request was granted for a 7-foot portion of the street dedication requirements to expand the right-of-way on the east side of the street for the portion of the block where existing development is located in the PCC COM-1 and PCC COM-2 land use districts (along the frontage of proposed Lots 2 and 3). No additional curb cuts besides the three existing curb cuts may be allowed along Indiana Street.

Public Transit

Public transit includes the Metro Green Line and multiple bus lines that operate in the vicinity of the Specific Plan. The Metro Green line is a light rail line running between Redondo Beach and Norwalk. The line runs north/south east of the project site along Nash Street with the closest station at Nash Street and Mariposa Avenue. The Mariposa Green Line station is approximately ½ mile away from the project site.

There are two Metro bus lines, one Beach Cities bus line, and two LADOT Commuter Express lines that run in the vicinity of the Specific Plan. Metro Line 232 provides local service between the City of El Segundo and downtown Long Beach and runs along Pacific Coast Highway. LADOT Commuter Express 574 provides express service on weekdays from Encino to the City

of Hawthorne along Pacific Coast Highway and then heads east along El Segundo Boulevard south of the project site. Beach Cities Line 109 provides local service between the City of Redondo Beach and Los Angeles International Airport and runs along Pacific Coast Highway south of Grand Avenue (one block south of the Specific Plan area) and turns onto Grand Avenue to Downtown El Segundo to Main Street and north to Imperial Highway. Metro Line 625 provides local service between the City of El Segundo and Los Angeles International Airport and it runs along Imperial Highway north of the Specific Plan area. LADOT Commuter Express 438 provides express service on weekdays from El Segundo to the Downtown Los Angeles Financial District along Imperial Highway north of the project site. LADOT Commuter Express 439 provides express service on weekdays from El Segundo to Downtown Los Angeles along Douglas Street and Imperial Highway to the east of the site.

NON-VEHICULAR CIRCULATION

Walkways will be provided connecting the buildings, uses (hotels, residential and commercial uses), parking structures and surfaces areas, and the public sidewalks on the five (5) surrounding streets (Pacific Coast Highway, Mariposa Avenue, Palm Avenue, Holly Avenue and Indiana Street). Marked crosswalks are provided at all major arterial intersections.

The City of El Segundo adopted the South Bay Bicycle Plan and it has implemented some of the bicycle improvements in the proposed Bicycle Plan network including 4.9 miles of Class III Bike Routes (where vehicles and bicycles share travel lanes) on several City streets. The Bike Routes that are closest to the Specific Plan area are on Grand Avenue from Loma Vista Street to Duley Road and on Nash Street from Imperial Highway to El Segundo Boulevard. The Bicycle Master Plan includes Class I Bike Paths, Class II Bike Lanes, Class III Bike Routes and Bike-Friendly streets. The nearest proposed facilities are a Class II Bike Lane running east-west on Mariposa Avenue and a Class I Bike Path on Washington Street one block west of the Specific Plan boundary.

Bicycle parking facilities in accordance with Municipal Code and California Green Building Code requirements will be provided in multiple locations in the parking structures and surface parking areas in the Specific Plan.

E. GRADING CONCEPT

Some rough grading will be required at the South Site located in the PCC Mixed-Use 1 (PCC MU-1) land use district, the Fairfield Parking Site located in the PCC Commercial-3 (PCC COM-3) land use district, and the North Site located in the PCC Mixed-Use 2 (PCC MU-2) land use district. No grading will be required for the areas where the existing hotel buildings will remain.

Site grading will require a combination of cut and fill to create a building/parking structure pad and to accommodate one level of subterranean parking and retaining walls on the South Site as a result of the existing sloped topography. The property slopes down from Pacific Coast Highway to Indiana Street and slopes down toward Holly Avenue as well with the lowest point at the intersection of Indiana Street and Holly Avenue. The grading is estimated to result in

approximately 27,700 cubic yards of cut and fill resulting in 17,700 cubic yards of soil export. The Fairfield Parking Site and the North Site are relatively flat. The Fairfield Parking site is estimated to require 6,000 cubic yards of cut and fill for site rebalancing that will result in 0 cubic yards of export. The North Site is estimated to require 15,000 cubic yards of cut and fill for site rebalancing resulting in 0 cubic yards of soil export. Final grading plans will be approved by the City Engineer before the City issues grading permits.

IV. UTILITIES AND INFRASTRUCTURE

The following is a summary of existing and proposed public infrastructure for development of the Specific Plan area. All infrastructure will be constructed in accordance with the standards of the governing agency.

A. WATER SERVICE

EXISTING CONDITION

Water utility service is provided by the City of El Segundo and is currently available within the Specific Plan area and serves the two existing hotels. Water is purchased through West Basin Municipal Water District which is a member of The Metropolitan Water District of Southern California.

There is an existing City of El Segundo 10-inch asbestos-cement water line located 11 feet west of the centerline of Indiana Street. This water line is scheduled to be replaced with a new 10-inch ductile iron water main in FY 2020-2021. There are also two existing water lines in Pacific Coast Highway. One is a City of El Segundo 10-inch ductile iron pipe located 32-feet west of the street centerline. The other is a 10-inch pipe located 33-feet east of the street centerline. In Palm Avenue north of the Specific Plan area, there is a City of El Segundo 10-inch asbestos-cement pipe located 6 feet north of the street centerline. In Holly Street south of the Specific Plan area, there is a City of El Segundo 10-inch asbestos-cement pipe located 13 feet south of the street centerline. There is also an existing City of El Segundo 10-inch ductile iron water line in Mariposa Avenue, located 6-feet south of the street centerline (refer to Exhibits 8A, 8B and 8C, *Conceptual Water Plan South Site, Conceptual Water Plan Fairfield Parking Site, and Conceptual Water Plan North Site respectively*).

Water for fire suppression is provided by on-site building sprinklers and from 7 off-site fire hydrants. Existing fire hydrants owned by the City of El Segundo are located along Pacific Coast Highway, Holly Avenue, and Indiana Street.

PROPOSED CONDITION

The water service connection for domestic water and fire protection shall be made to one or more of the existing City of El Segundo water lines. The specific location of these connections and pipe sizing will be based upon the City of El Segundo's approval. The system shall provide adequate water supply for operation of the building's domestic requirements, automatic sprinkler systems and on-site fire hydrants (if required by the State or City Fire Marshal). A Conceptual Water Utility Plan has been developed for the Specific Plan Area (refer to Exhibits 8A, 8B and 8C, *Conceptual Water Plan South Site, Conceptual Water Plan Fairfield Parking Site, and Conceptual Water Plan North Site respectively*).

Fire flows for the proposed development will be based on the requirements listed in that version of the California Fire Code that is in effect at the time of plan submission, as amended by the City.

Demands for domestic water in the proposed condition were calculated with the assumption that they will be 120% of the sewer demand rates. s

Based on the requirements outlined by the El Segundo Fire Department in Regulation H-2-a for Fire Hydrant and Private Fire Main System Installation, 2 additional fire hydrants may need to be installed in order to provide coverage for portions of the proposed buildings that are in excess of 150-feet from a public fire hydrant. Coordination with the El Segundo Fire Department Fire Prevention Division is required to determine whether the additional fire hydrants will be located in the public street and/or within the development.

The minimum number of fire hydrants required was calculated using Table C102.1 from the California Fire Code. The spacing between fire hydrants for all three sites will be 300-feet for public fire hydrants, as stated in the City of El Segundo Fire Prevention Division "Regulation H-2-a Fire Hydrant and Private Fire Main System Installation" document (see Table IV-2 below for the hydrant and number spacing requirements).

Table IV-2. Required Number and Spacing of Fire Hydrants.

	Minimum Number of Hydrants	Spacing Between Hydrants
North Site	3	
Fairfield Parking	1	300 ft (typ.)
South Site	3	

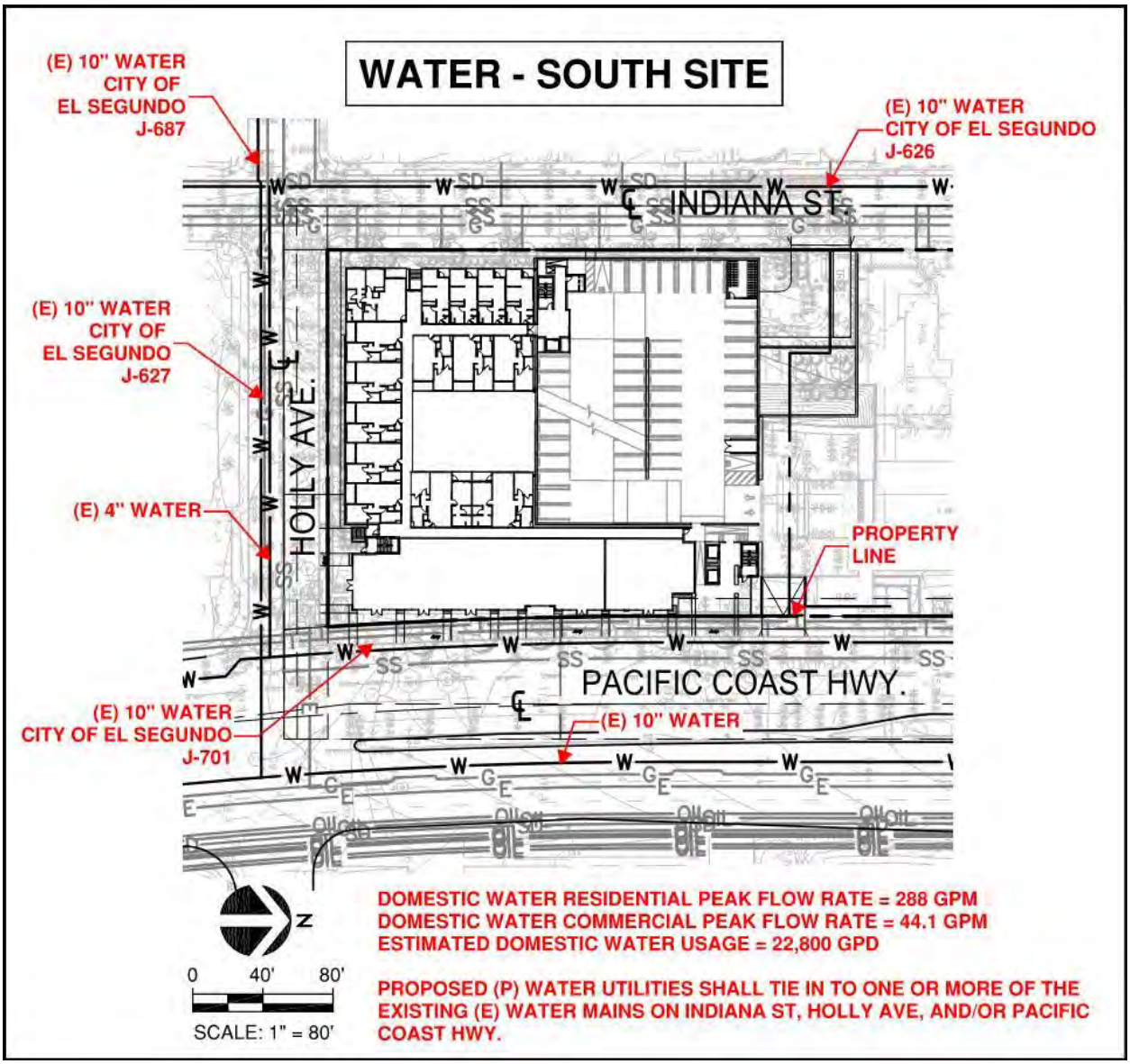


EXHIBIT 8A
CONCEPTUAL WATER PLAN
SOUTH SITE IN THE PCC MU-1 DISTRICT

(Source: KPFF)

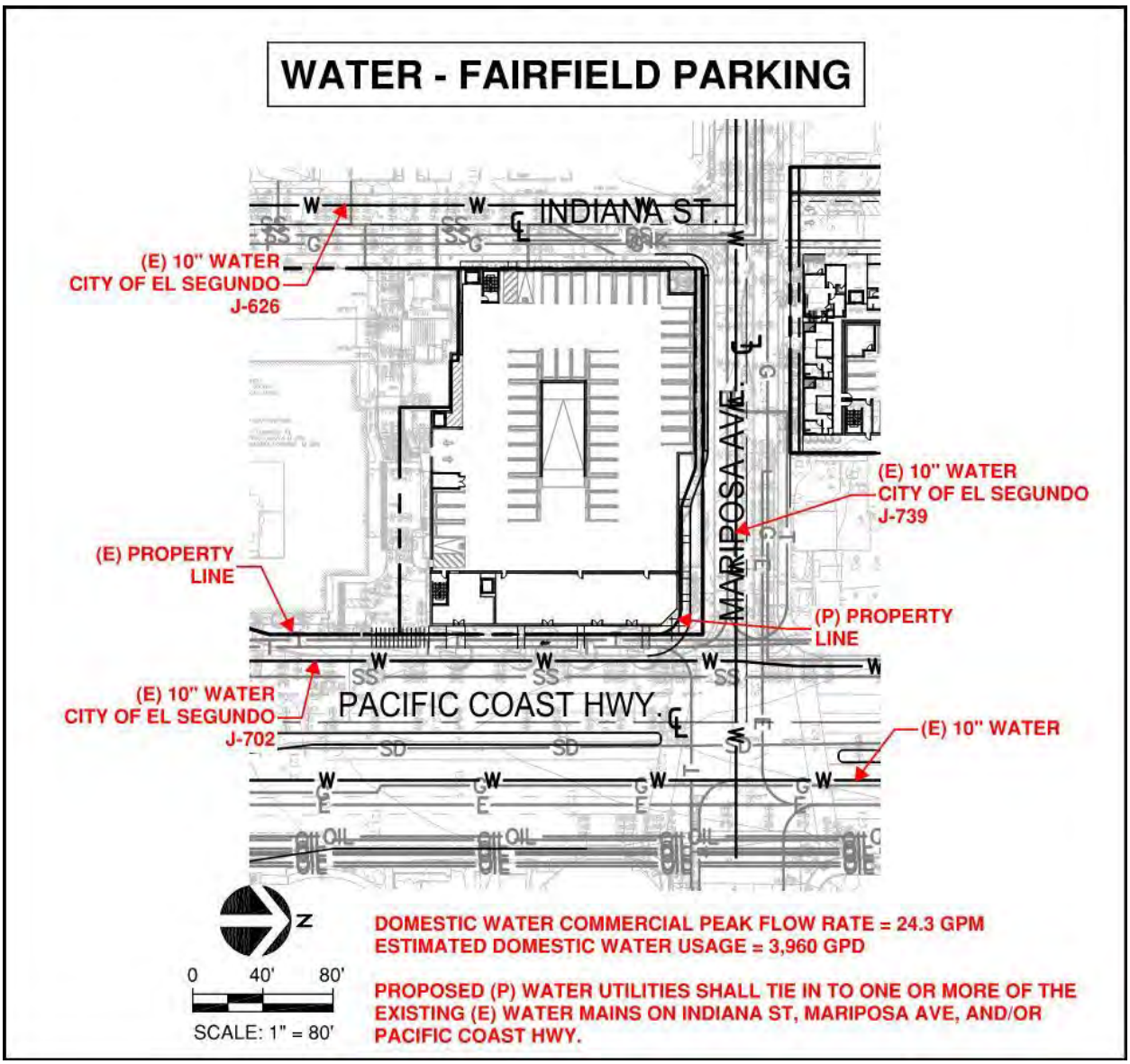


EXHIBIT 8B
CONCEPTUAL WATER PLAN
FAIRFIELD PARKING SITE IN THE PCC COM-3 DISTRICT

(Source: KPFF)

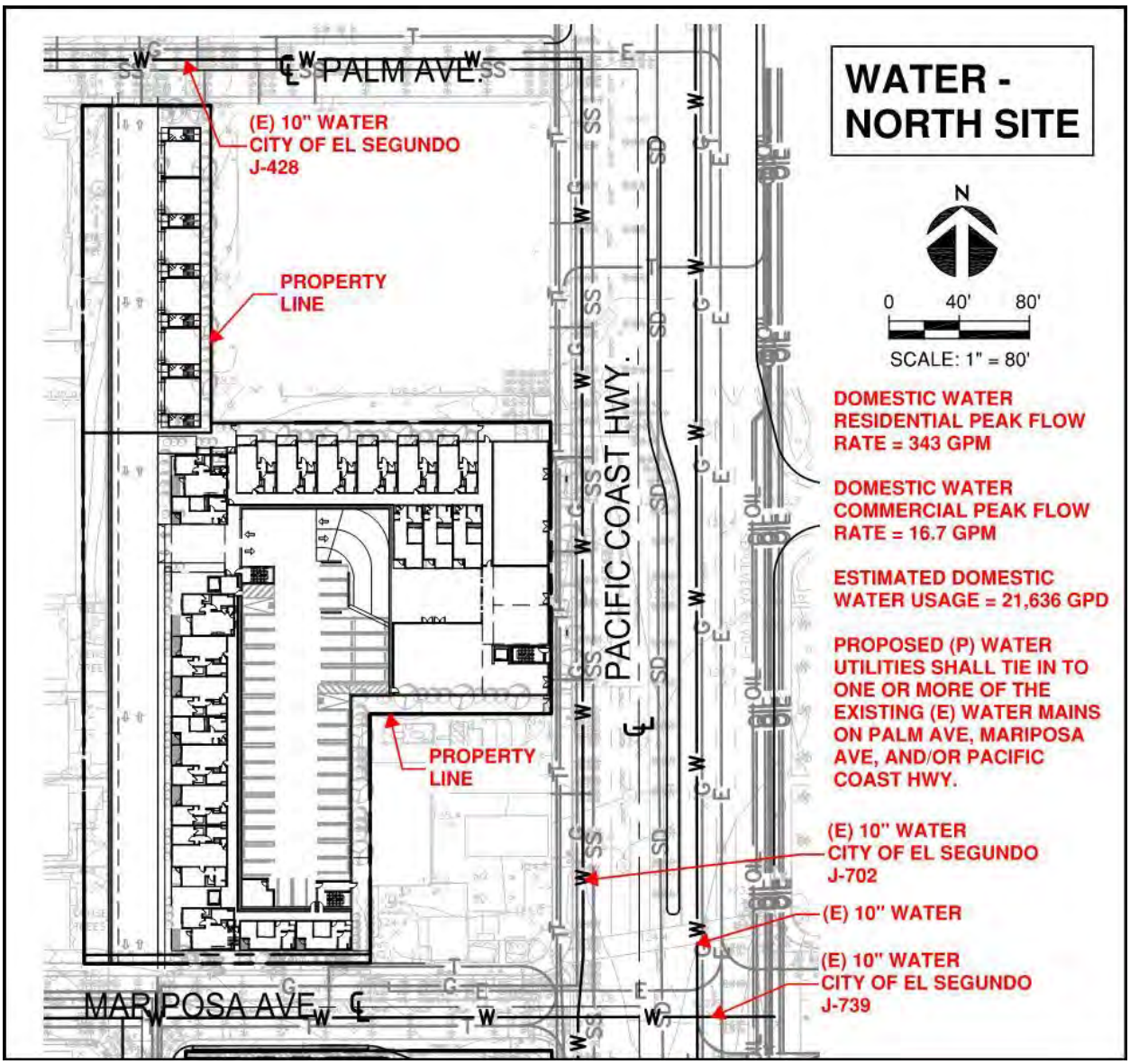


EXHIBIT 8C
CONCEPTUAL WATER PLAN
NORTH SITE IN THE PCC MU-2 DISTRICT

(Source: KPFF)

B. RECLAIMED WATER

EXISTING CONDITION

Reclaimed water utility service is provided by the West Basin Municipal Water District from a treatment plant on Hughes Way. There are no existing reclaimed water mains in the streets adjacent to the project. According to West Basin Municipal Water District record drawings, the closest reclaimed water main is located in Washington Avenue adjacent to Washington Park at the intersection with Elm Street, approximately 500-feet from the intersection of Palm Avenue and Indiana Street.

PROPOSED CONDITION

Future reclaimed water service is anticipated to be provided through the existing point of connection on Washington Avenue. Should West Basin Municipal Water District extend the reclaimed water lines adjacent to the Specific Plan area in the future, exact points of connection will be based on West Basin Municipal Water District's and the City of El Segundo's input. Reclaimed water service may not be available at the time of project completion.

C. SEWER SERVICE

EXISTING CONDITION

All existing sanitary sewer lines in the streets surrounding the project site are owned by the City of El Segundo. Sewer utility service is provided by the City of El Segundo and the Los Angeles County Sanitation District and is currently available within the site.

An 8-inch vitrified clay pipe (VCP) gravity line is located west of the site under the centerline of Indiana Street, with a depth varying from 2-feet to 9-feet below grade to the pipe invert. The sewer begins at a manhole located approximately 98-feet south of Mariposa Avenue, before sloping south where it connects to two 12-inch sewer lines—one on Holly Avenue and one that continues south on Indiana Street. In Indiana Street, there is also a 10-inch ductile iron pressure sewer located 6-ft east of the street centerline.

In Pacific Coast Highway, there is an existing 12-inch VCP gravity line located 26-feet west of the street centerline. The pipe slopes from north to south and varies in depth from 6-feet to 18-feet. At the intersection with Holly Avenue, the pipe connects to a 12-inch sewer running west on Holly Avenue.

An existing 8-inch VCP gravity line is located under the street centerline of Palm Avenue. This sewer has a high point elevation at a manhole located approximately 390-feet west of Pacific Coast Highway. The pipe slopes to drain out to both mainlines on both sides of the manhole. On the east end, it connects to the 12-inch sewer located in Pacific Coast Highway.

There are two existing sewer lines on Mariposa Avenue, west of Indiana Street. One is an 8-inch VCP gravity line located on the street centerline. It slopes from east to west and connects to an 8-

inch sewer line on Illinois Court. The other sewer line on Mariposa Avenue is a 10-inch pressure sewer located 5 feet north of the street centerline. A sewer study has been conducted that determined the existing sewer system has sufficient capacity to accommodate the additional flow that will be generated by the new development.

PROPOSED CONDITION

New sewer laterals are proposed for all the new buildings. It is anticipated that the new sewer laterals will connect to several of the existing gravity lines surrounding the project. The proposed project does not currently impact the existing pressure lines. The sewer laterals will be designed to slope at a minimum of 2% and maintain a minimum scouring velocity of 2-feet/second. Points of connection will be based on the City of El Segundo's input and will require a Sewer Connection Permit from the City of El Segundo. A conceptual sewer plan has been developed for the Specific Plan area (refer to Exhibits 9A, 9B and 9C, *Conceptual Sewer Plan South Site, Conceptual Sewer Plan Fairfield Parking Site, and Conceptual Sewer Plan North Site respectively*).

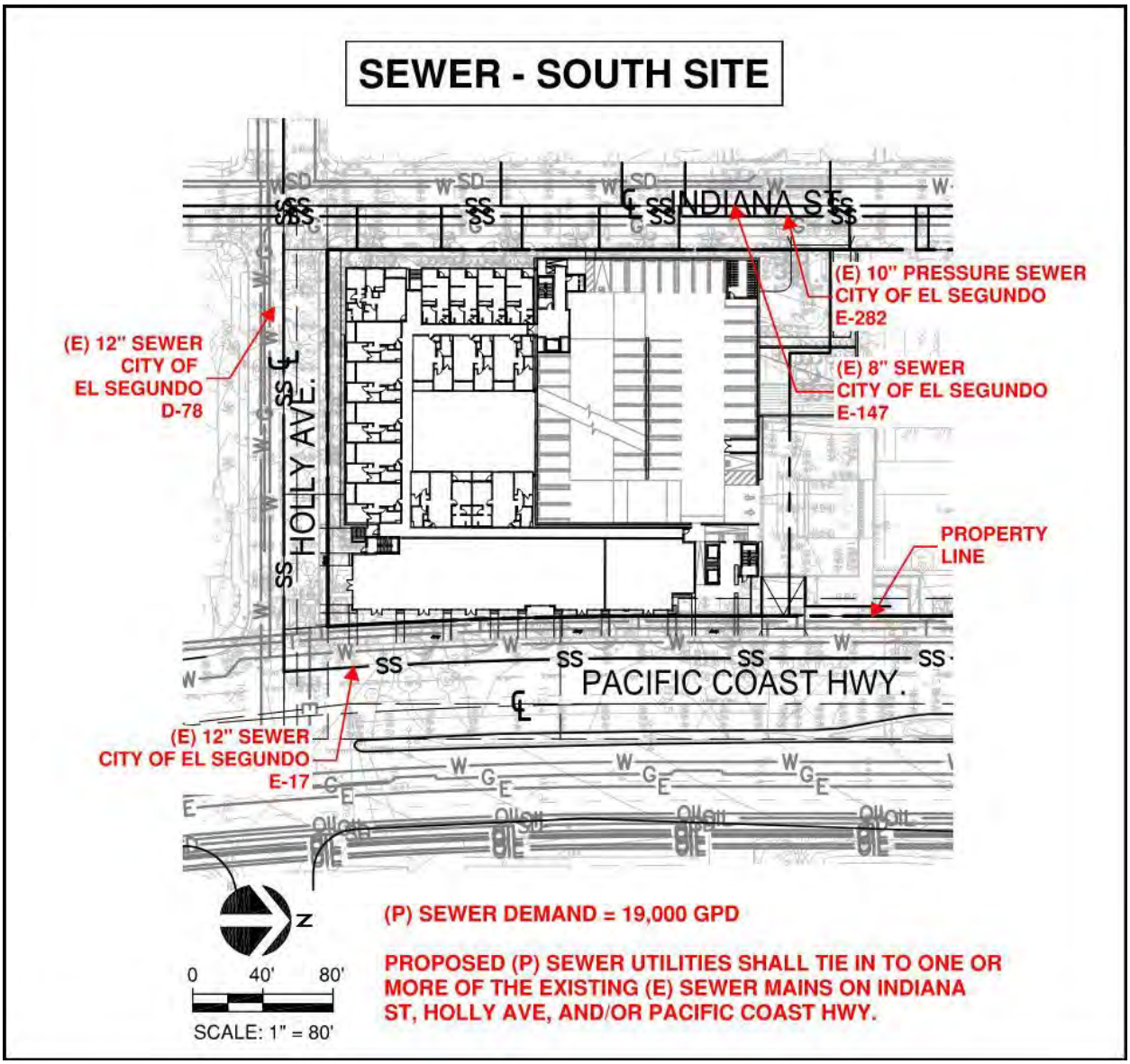


EXHIBIT 9A
CONCEPTUAL SEWER PLAN
SOUTH SITE IN THE PCC MU-1 DISTRICT

(Source: KPFF)

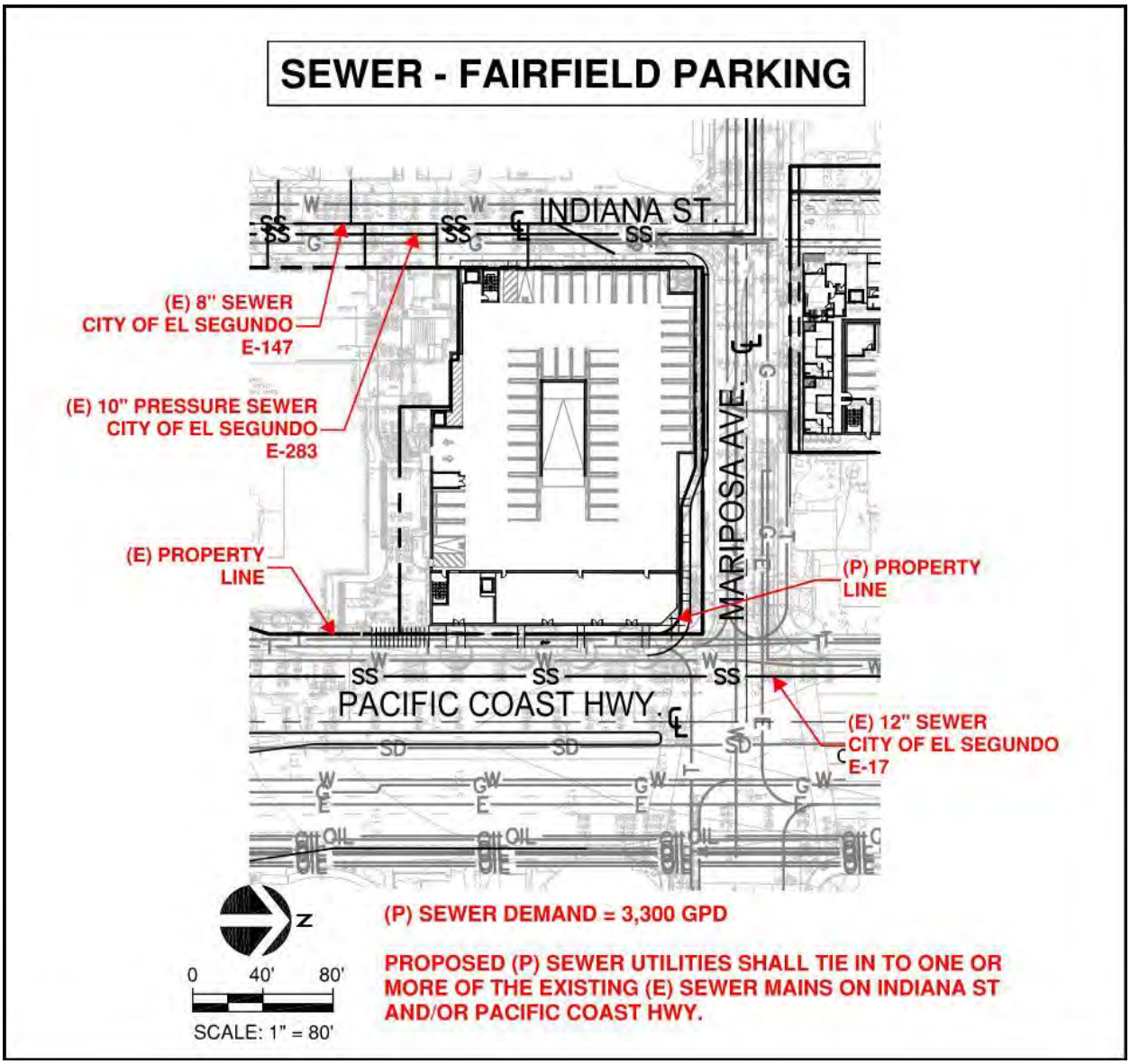


EXHIBIT 9B
CONCEPTUAL SEWER PLAN
FAIRFIELD PARKING SITE IN THE PCC COM-3 DISTRICT

(Source: KPFF)

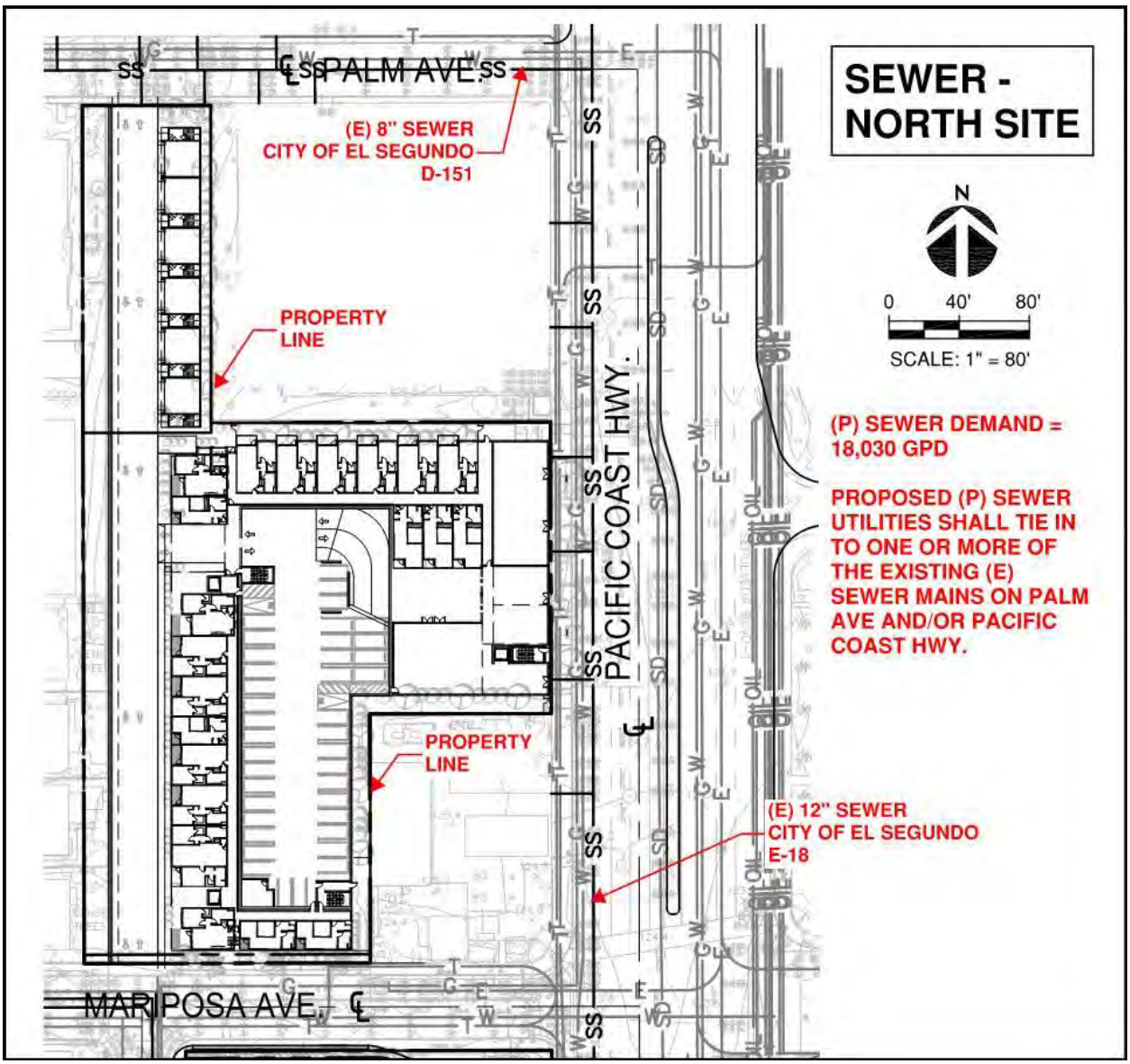


EXHIBIT 9C
CONCEPTUAL SEWER PLAN
NORTH SITE IN THE PCC MU-2 DISTRICT

(Source: KPFF)

D. DRAINAGE

EXISTING CONDITION

There are two existing storm drains near this project that are owned by Caltrans and the City of El Segundo.

The existing Caltrans storm drain is located below Pacific Coast Highway. The storm drain is comprised of reinforced concrete pipe (RCP) and varies in size from 18-inches to 24-inches. The variable width existing RCP storm drain is located 66.5-feet east of the centerline in the portion of the street that is south of Pine Avenue and is located approximately 23-feet east of centerline in the portion that is north of Pine Avenue, although this location varies. The pipe flows from north to south. The depth of the pipe invert varies from approximately from 4-feet to 6-feet below grade.

The City of El Segundo storm drain is an existing 24-inch, RCP storm drain that runs through Indiana Street, and flows from north to south. It conveys stormwater from a catch basin on the west side of Indiana Street and is located 39 feet west of the project's property line. This storm drain runs south and ties in to another storm drain on Holly Avenue that runs west before ultimately discharging into a basin located approximately 0.5-miles southwest of the Specific Plan area, at the intersection of Center Street and Grand Avenue. The catch basin is located approximately 230-feet north of Holly Avenue.

Federal Emergency Management Agency (FEMA) map #06037C1770F shows this Project site is located within Zone X, which is described to be an area of minimal flood hazard and determined to be outside of the 0.2% annual chance floodplain. There are no Special Flood Hazards on-site.

PROPOSED CONDITION

Drainage must comply with all applicable laws and regulations, including without limitation, the City's National Pollution Discharge Elimination System (NPDES) Permit.

Proposed drainage will include stormwater treatment features on multiple sites within the Specific Plan area, in accordance with the City of El Segundo Low Impact Development (LID) requirements. The storm water quality design volume required by Los Angeles County Low Impact Development (LID) standards will be stored in the system and infiltrate into the soil beneath the underground system within 48 hours. These treatment features are designed to treat the 85th percentile storm event, while overflow drainage features will be designed based on the 25-year storm event.

Infiltration is feasible for stormwater treatment within the Specific Plan area. It appears that one drywell at each of the three new development sites within the Specific Plan area will be able to capture the required volume and will be able to treat that volume as quickly as it enters the drywell system. The same drywell design will be used at each site. The drywells will include overflow piping that will be sized based on the 25-year storm event. Overflow features will convey water to Indiana Street or Mariposa Avenue and into the City of El Segundo catch basin on Indiana Street. Thus, stormwater in the proposed condition will flow only to the City of El Segundo storm drain.

Because the peak flow rate will be reduced in the proposed condition, it is assumed that the City of El Segundo storm drain will have more than enough capacity to handle the flow rate generated.

A Conceptual Drainage Plan has been developed for the Specific Plan area that provides both existing and proposed conditions (refer to Exhibits 10A, 10B, 10C, 10D, 10E, and 10F, *Existing Drainage Plan South Site, Conceptual Drainage Plan South Site, Existing Drainage Plan Fairfield Parking Site, Conceptual Drainage Plan Fairfield Parking Site, Existing Drainage Plan North Site, and Conceptual Drainage Plan North Site respectively*).

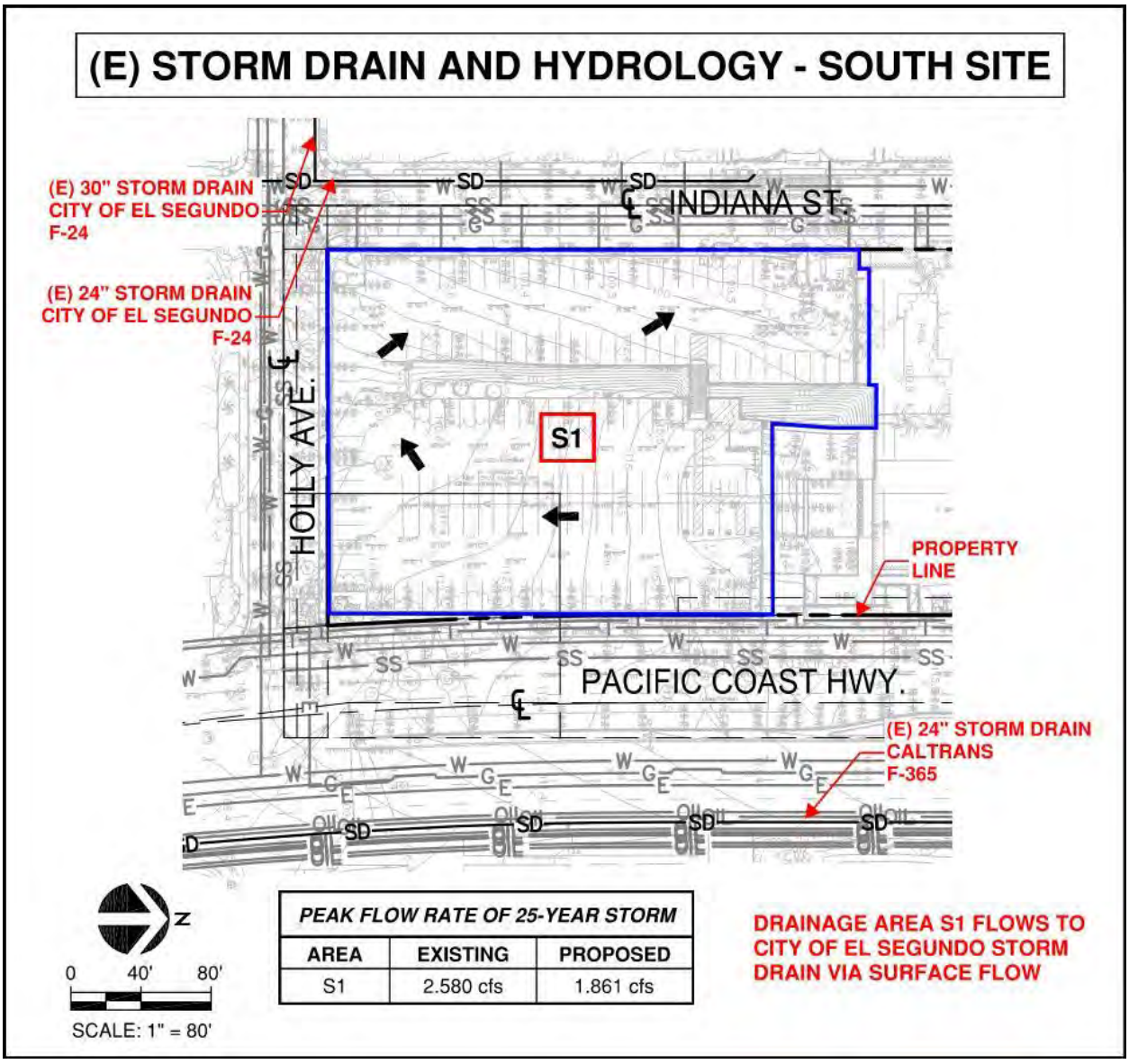


EXHIBIT 10A
EXISTING DRAINAGE PLAN
SOUTH SITE IN THE PCC MU-1 DISTRICT

(Source: KPFF)

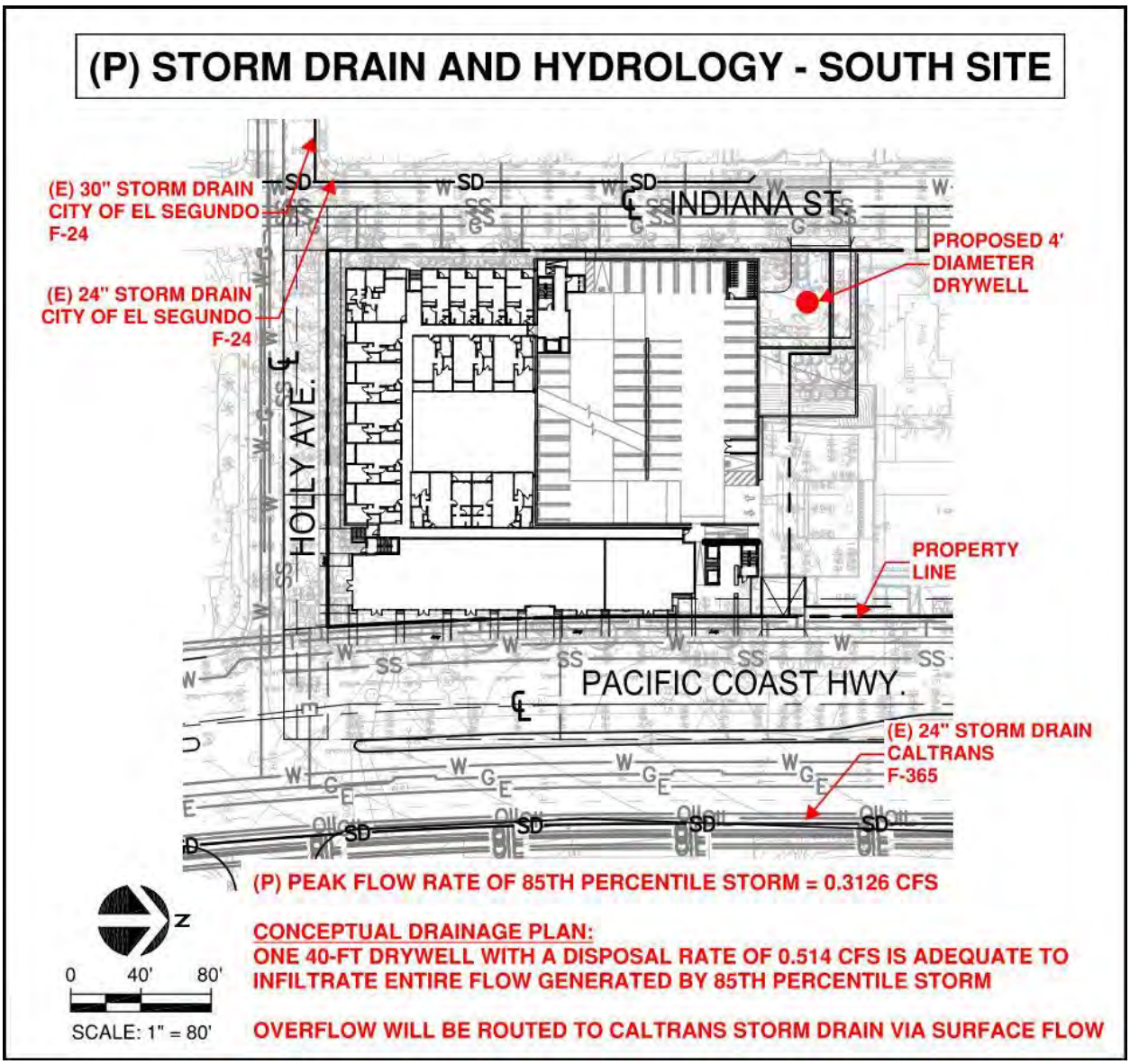


EXHIBIT 10B
CONCEPTUAL DRAINAGE PLAN
SOUTH SITE IN THE PCC MU-1 DISTRICT

(Source: KPFF)

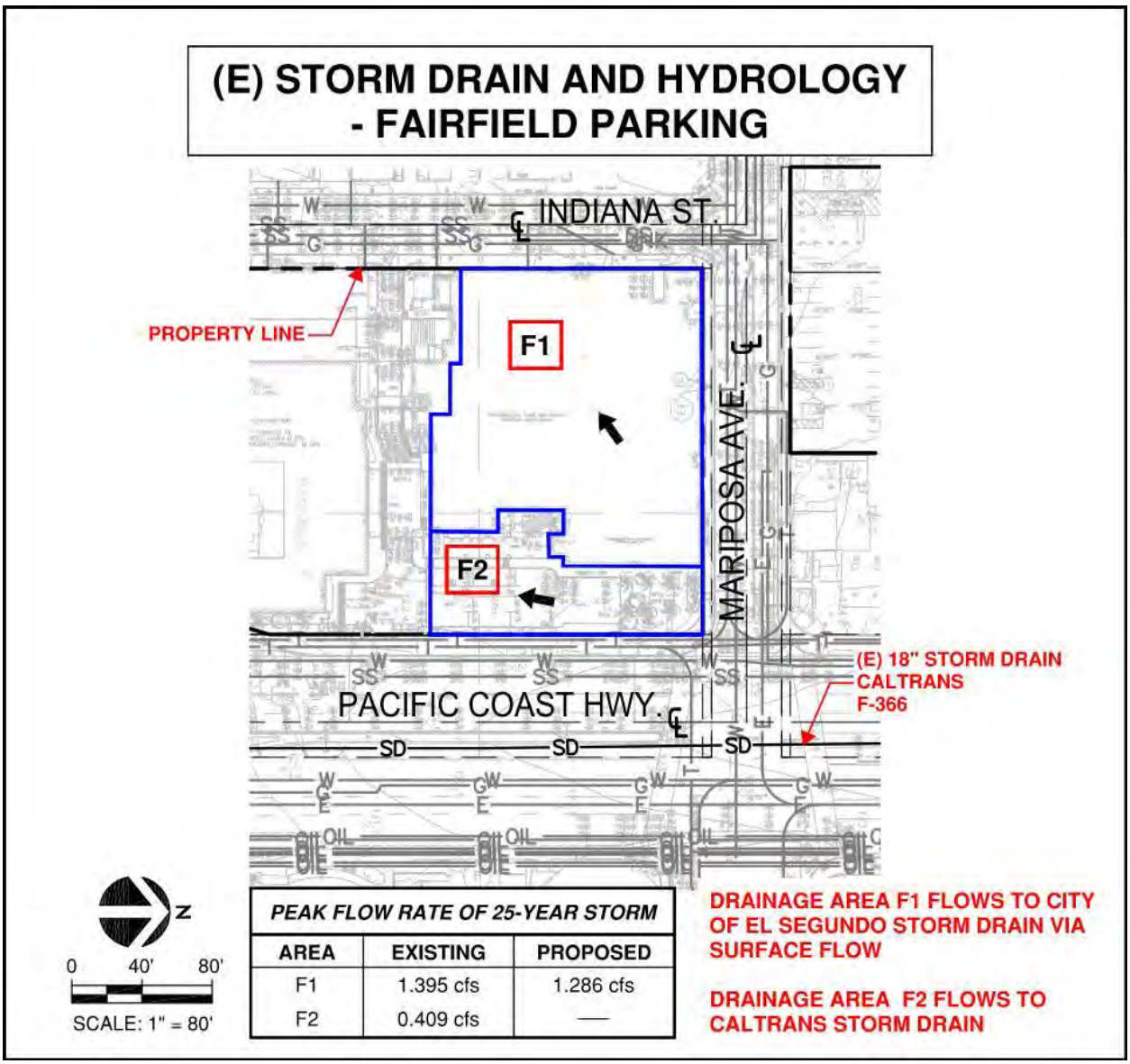


EXHIBIT 10C
EXISTING DRAINAGE PLAN
FAIRFIELD PARKING SITE IN THE PCC COM-3 DISTRICT

(Source: KPFF)

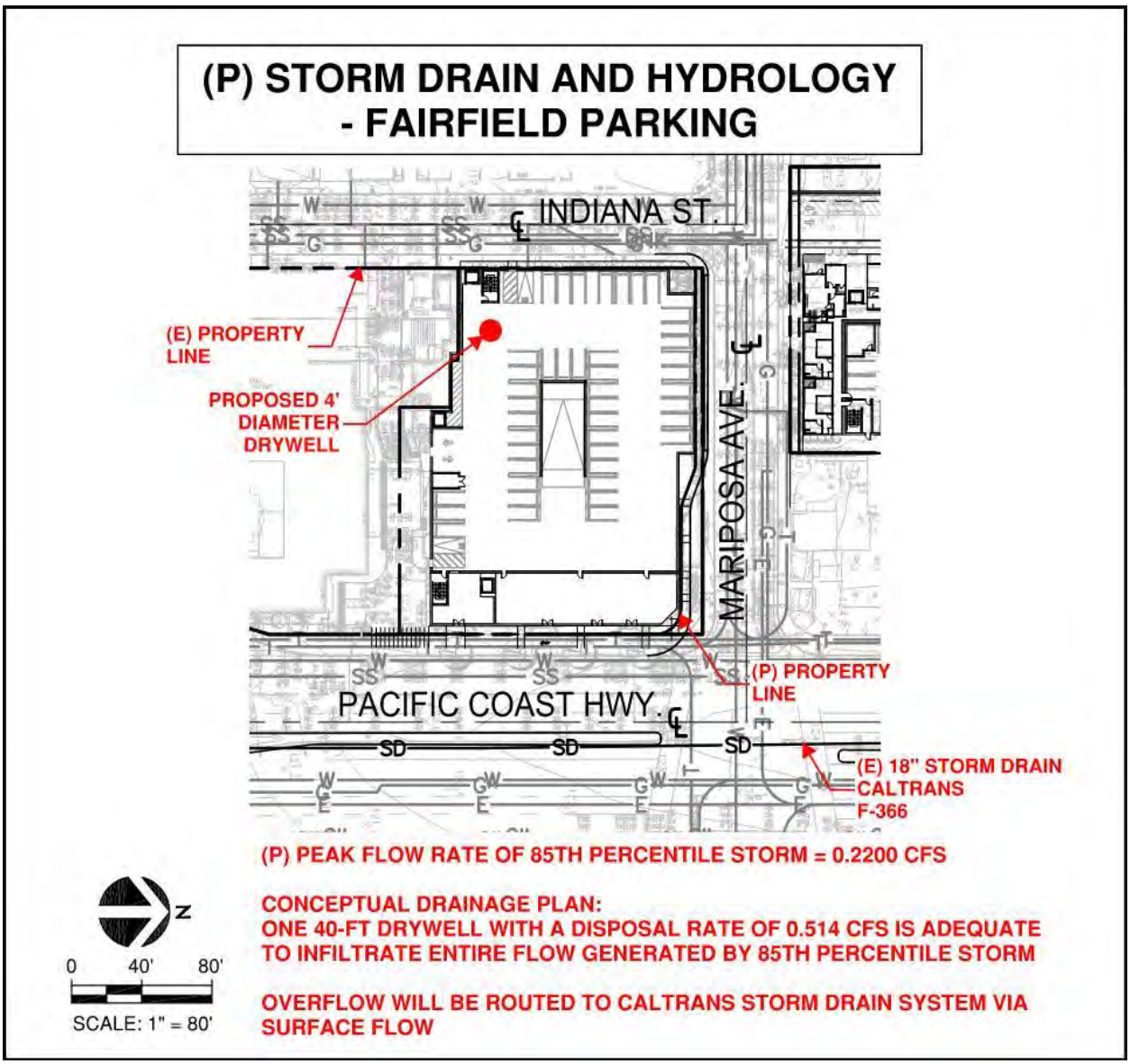


EXHIBIT 10D
CONCEPTUAL DRAINAGE PLAN
FAIRFIELD PARKING SITE IN THE PCC COM-3 DISTRICT

(Source: KPFF)

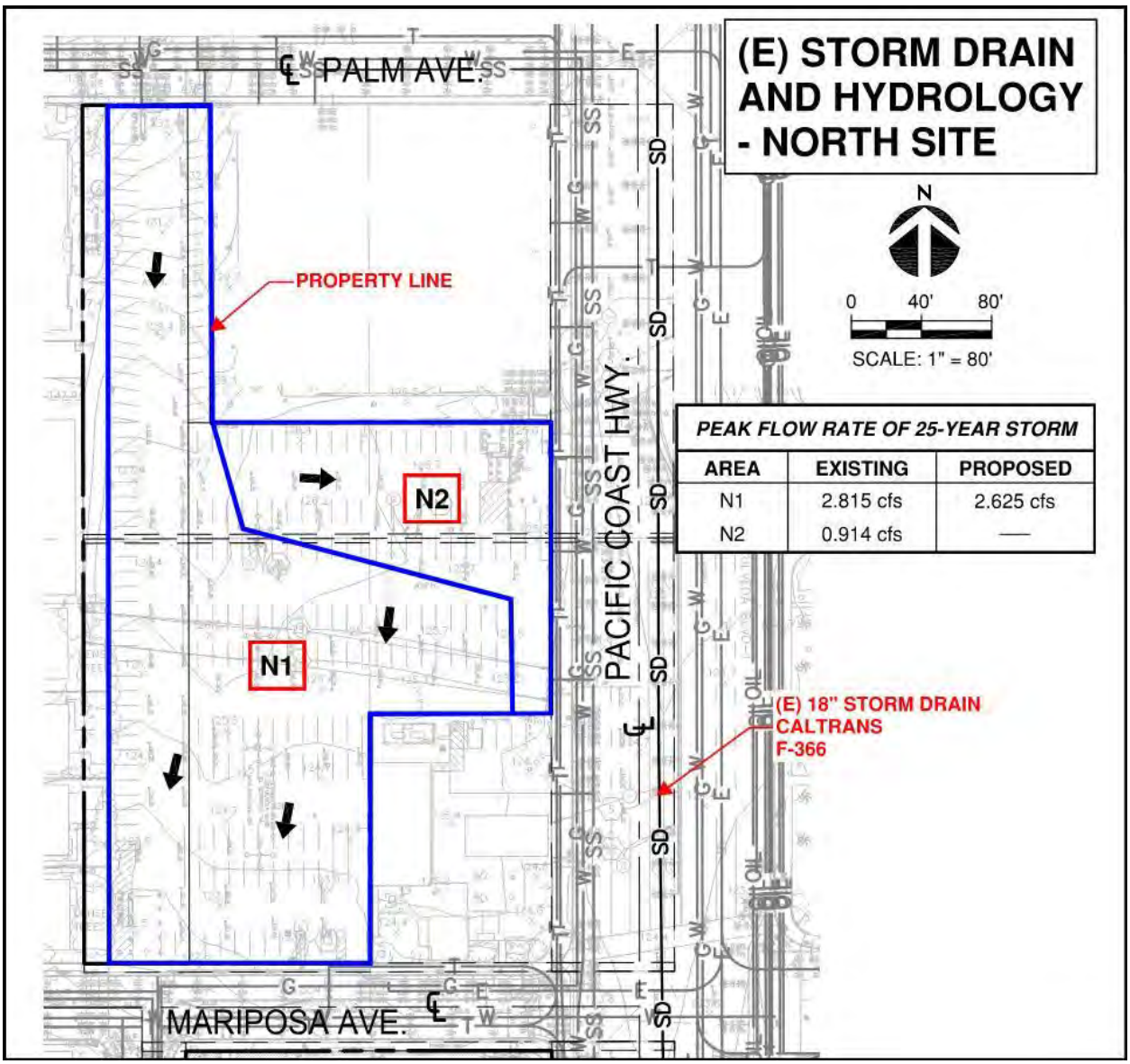


EXHIBIT 10E
EXISTING DRAINAGE PLAN
NORTH SITE IN THE PCC MU-2 DISTRICT

(Source: KPFF)

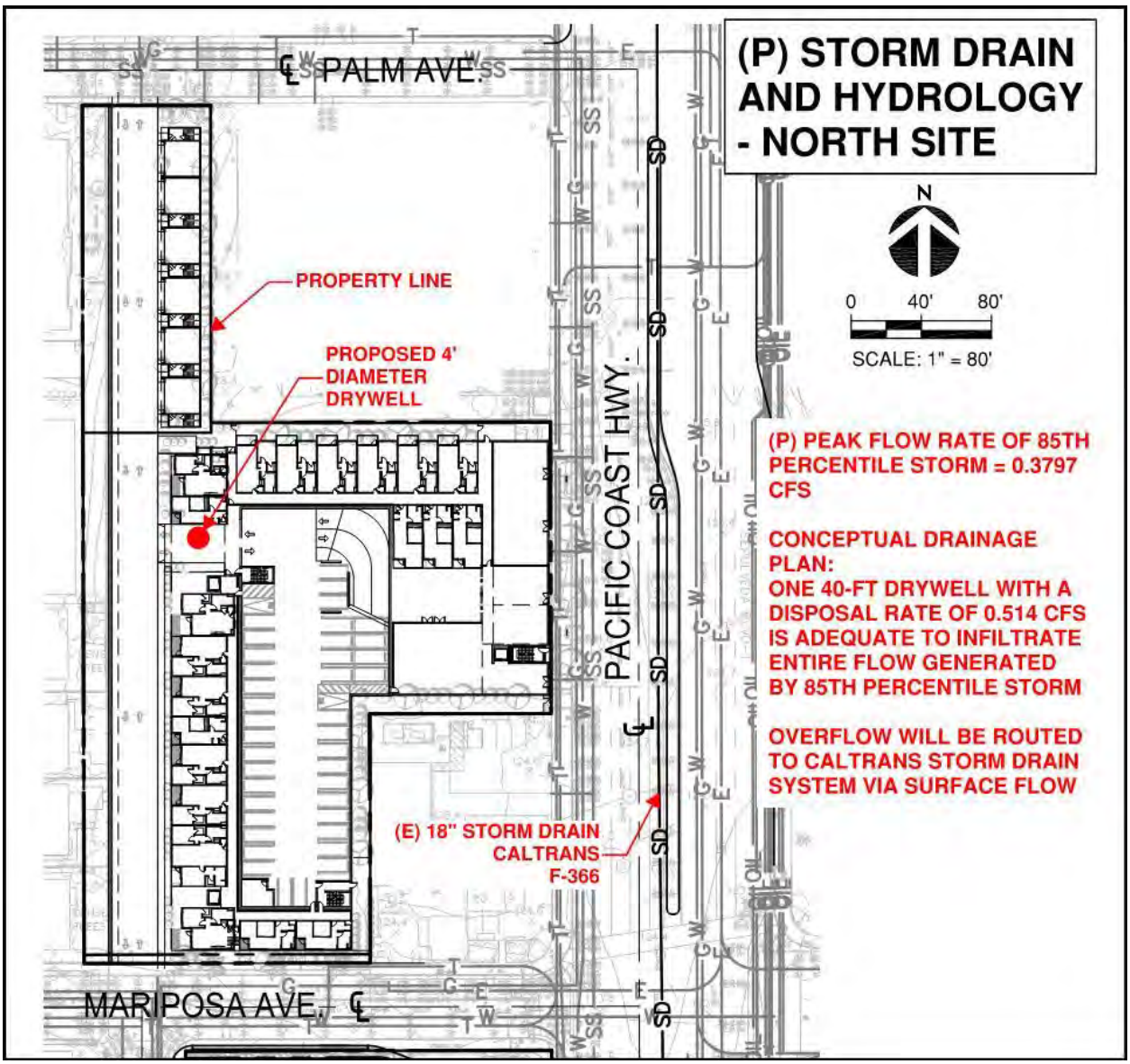


EXHIBIT 10F
CONCEPTUAL DRAINAGE PLAN
NORTH SITE IN THE PCC MU-2 DISTRICT

(Source: KPFF)

E. GAS

EXISTING CONDITION

Natural gas service is provided by Southern California Gas Company (SoCal Gas) and is currently available within the developed portions of the site and in streets surrounding the project site. Specifically, existing SoCal Gas utilities are located in the following streets adjacent to the project site: Pacific Coast Highway, Palm Avenue, Mariposa Avenue, Indiana Street, and Holly Avenue.

PROPOSED CONDITION

The existing gas service will be maintained and future gas service will be provided through private gas service line connections to the SoCal Gas utilities (public main line(s)) in the surrounding streets that include Pacific Coast Highway, Palm Avenue, Mariposa Avenue, Indiana Street, and Holly Avenue. The private gas service lines will be secured by easements with SoCal Gas.

A conceptual plan has been developed for the Specific Plan area (refer to Exhibits 11A, 11B, and 11C, *Conceptual Electric, Gas & Telecommunication Plan South Site, Conceptual Electric, Gas & Telecommunication Plan Fairfield Parking Site, and Conceptual Electric, Gas & Telecommunication Plan North Site respectively*).

F. ELECTRIC

EXISTING CONDITION

Electric power is provided by Southern California Edison (SoCal Edison) to the Specific Plan area through an underground utility conduit system in the streets adjacent to the project site including Pacific Coast Highway and Mariposa Avenue.

PROPOSED CONDITION

SoCal Edison has existing underground electrical utilities in the streets adjacent to the project site, including Pacific Coast Highway and Mariposa Avenue. New underground utility conduit systems will be needed to intercept the existing underground electric system and provide electrical power to the proposed improvements. An easement will be granted to SoCal Edison for access and maintenance. Final locations and points of connection for the electrical system will be based on a final approved SoCal Edison design. A conceptual plan has been developed for the Specific Plan area (refer to Exhibits 11A, 11B, and 11C, *Conceptual Electric, Gas & Telecommunication Plan South Site, Conceptual Electric, Gas & Telecommunication Plan Fairfield Parking Site, and Conceptual Electric, Gas & Telecommunication Plan North Site respectively*).

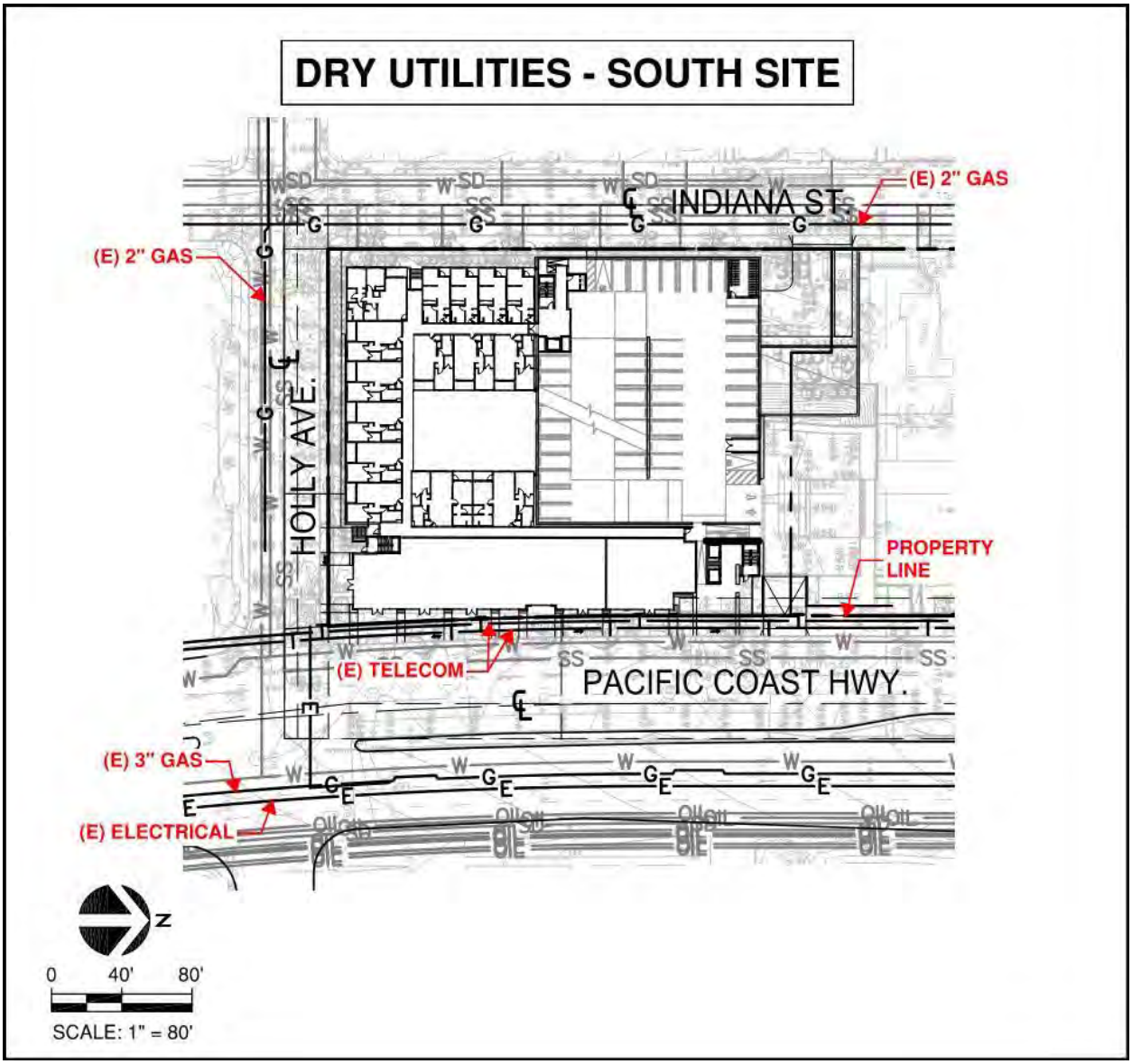


EXHIBIT 11A
CONCEPTUAL ELECTRIC, GAS AND TELECOMMUNICATIONS PLAN
SOUTH SITE IN THE PCC MU-1 DISTRICT

(Source: KPFF)

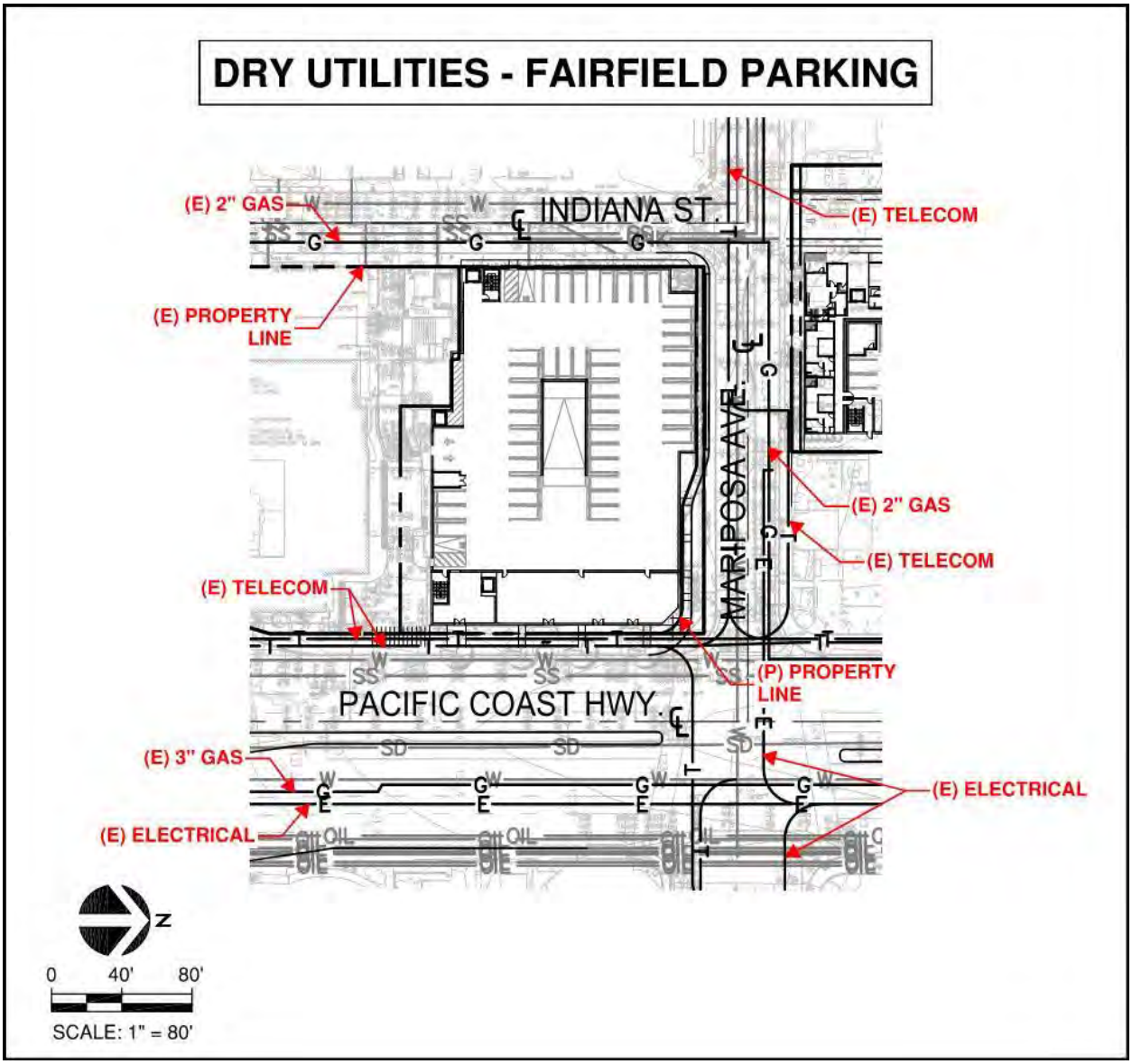


EXHIBIT 11B
CONCEPTUAL ELECTRIC, GAS AND TELECOMMUNICATIONS PLAN
FAIRFIELD PARKING SITE IN THE PCC COM-3 DISTRICT

(Source: KPFF)

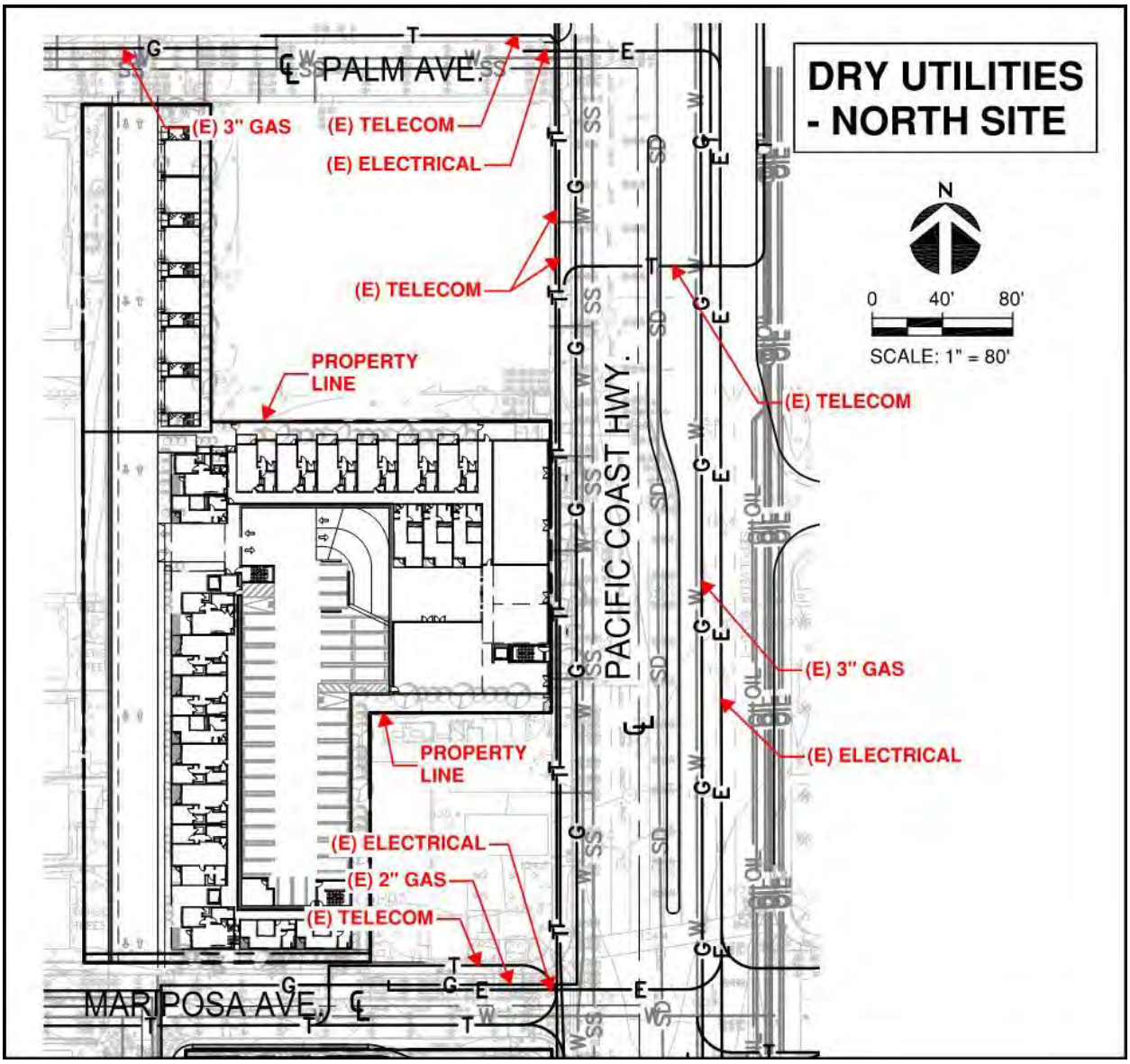


EXHIBIT 11C
CONCEPTUAL ELECTRIC, GAS AND TELECOMMUNICATIONS PLAN
NORTH SITE IN THE PCC MU-2 DISTRICT

(Source: KPFF)

G. TELECOMMUNICATIONS UTILITIES

EXISTING CONDITION

Cable and telecommunication service is provided by Sonify, Velocity, Verizon, CenturyLink, and Charter Communications in the vicinity of the Specific Plan area. Verizon and CenturyLink currently have underground facilities in Pacific Coast Highway. Charter Communications has a combination of aerial and underground facilities in Indian Street, Mariposa Avenue, Palm Avenue and Holly Avenue. Velocity provides phone and internet service to the Aloft and the Fairfield Inn and Suites hotels. Currently, Sonify provides television service to the Aloft and Fairfield Inn and Suites hotels.

PROPOSED CONDITION

It is anticipated that Velocity and Sonify would continue to provide service to the Aloft and the Fairfield Inn and Suites hotels. Charter Communications has indicated that it may provide service to the project, but will need to perform an investigation of the area to confirm that it is feasible. New underground utility conduit systems will intercept the existing underground telecommunications system and provide services to the proposed buildings. An easement will be granted to the telecommunication companies for access and maintenance. Final locations and points of connection for the telecommunications system will be based on a final approved design by the telecommunications providers. A conceptual plan has been developed for the Specific Plan area (refer to Exhibits 11A, 11B, and 11C, *Conceptual Electric, Gas & Telecommunication Plan South Site, Conceptual Electric, Gas & Telecommunication Plan Fairfield Parking Site, and Conceptual Electric, Gas & Telecommunication Plan North Site respectively*).

H. SOLID WASTE DISPOSAL

EXISTING CONDITION

Solid waste disposal is provided to multiple-family and commercial users by a variety of private haulers.

FUTURE CONDITION

Development within the Specific Plan would contract with a provider. Landfill capacity is adequate for assumed population and residential and commercial growth within Los Angeles County. Solid waste facilities within the Specific Plan area will comply with all ESMC requirements pertaining to building, fire, zoning codes (e.g., adequate trash enclosures and screening).

I. FIRE PROTECTION

EXISTING CONDITION

Fire protection services are provided by the El Segundo Fire Department which has two stations.

Fire Station 1 is located at 314 Main Street (next to City Hall) which is 1.1 miles from the Specific Plan area. Fire Station 2 is located at 2261 East Mariposa Avenue (at Mariposa Avenue and Douglas Street) which is 0.8 miles from the Specific Plan area. The provision of water for fire suppression is provided by on-site building sprinklers and from several off-site fire hydrants.

FUTURE CONDITION

Buildings will have sprinkler systems as required by the ESMC. Additional fire hydrants will be provided in addition to existing hydrants to provide coverage for portions of the proposed buildings that are in excess of 150 feet from a public hydrant. Spacing between fire hydrants for the South Site (in the PCC Mixed-Use 1 (PCC MU-1) land use district), Fairfield Parking Site (in the PCC Commercial-3 (PCC COM-3) land use district), and in the North Site (in the PCC Mixed-Use 2 (PCC MU-2) land use district) will be 300 feet for public fire hydrants. The North Site will have a minimum of 3 hydrants. The Fairfield Parking Site will have a minimum of 1 hydrant and the South Site will have a minimum of 3 hydrants. Fire hydrant requirements are discussed in greater detail above in "Section IV-A Water Service" of this Specific Plan. Development will be required to pay fire impact fees to off-set the additional demand for municipal fire protection services as a result of the new development.

J. POLICE SERVICES

EXISTING CONDITION

Police services are provided by the El Segundo Police Department which is located at 348 Main Street.

FUTURE CONDITION

Development will be required to pay police impact fees to off-set the additional demand for municipal police services as a result of the new development.

V. DESIGN GUIDELINES

These design guidelines are intended as "guidelines" instead of "development regulations." Consequently, strict compliance is not required. These design guidelines apply only to new construction (not applicable to existing buildings and site improvements in the PCC MU-1, PCC COM-1, PCC COM-2, and PCC COM-3 land use districts) and site areas that are modified as of the effective date of this Specific Plan. To promote the quality of design planned for this Project, the design guidelines given in this document establish criteria that enhance the coordination, organization, function and identity of the site, while maintaining a compatible relationship with the surrounding development of the Pacific Coast Commons Specific Plan.

A. DESIGN OBJECTIVES

Design Guidelines for the Pacific Coast Commons Specific Plan will promote and reinforce the City's commitment to high quality development. The objectives of these guidelines are to:

- Provide for high-quality residential and commercial development within the Specific Plan area.
- Promote orderly and predictable development.
- Encourage individual creativity and innovative solutions by allowing flexibility in how a particular guideline is met as long as the intent of the guideline is achieved.
- Ensure functional pedestrian, bicycle and motor vehicle circulation within the Project and convenient pedestrian and bicycle linkages to and from adjacent residential and commercial areas and schools.

1. Site Planning

a. The arrangement of new buildings, parking and circulation areas should recognize the particular characteristics of the site and should create a cohesive identity.

b. Site development should utilize variations on building orientation and landscaping adjacent to the public streets so that a monolithic "wall" of building faces is not created.

c. The design and location of accessory buildings (e.g., maintenance and storage buildings, trash and recycling enclosures, and outdoor mechanical equipment enclosures) should be incorporated into and be compatible with the overall design of the Project and the main buildings on the site.

d. Appropriate linkages between internal Project components and buildings should be incorporated, including pedestrian walkways.

e. Buildings should be arranged to create opportunities for outdoor amenities (e.g., plazas, courtyards, outdoor eating areas, etc.) where appropriate and feasible.

2. Access and Parking

a. The use of common (shared) access points and driveways is encouraged; placement of vehicle access points close to building entries should be avoided to minimize pedestrian and vehicular conflicts.

b. Entry driveway areas should be clearly marked by identifying features, (e.g., prominent landscape features and well-designed monument-type signs).

c. Access to each building should be clearly visible to pedestrians and motorists through the use of signage, color, and/or design elements.

d. Surface parking lots adjacent to and visible from public streets should incorporate landscaping to minimize undesirable visual impacts.

e. Surface parking areas should be enhanced and visually broken up through the use of canopy trees and landscape improvements and to reduce the effects of heat gain.

f. Parking lot and driveway design is encouraged to include water quality storm water facilities consistent with City standards.

3. Architecture/Orientation/Massing

a. The massing, scale and architectural style should consider compatibility with the surrounding character and existing buildings to reflect a cohesive character.

b. The orientation of the newly constructed buildings should facilitate and encourage pedestrian activities.

c. The mass and scale of new buildings should be compatible with the existing and adjacent structures and with each other. This can be accomplished by transitioning from the height of adjacent buildings to the tallest elements of the new building, stepping back the upper portions of taller buildings, and incorporating human scale elements, such as pedestrian scaled doors, windows, and building materials on the ground floor.

d. Buildings should be divided into distinct massing elements and should be articulated with architectural elements and details. Changes in height, horizontal plane, materials, patterns and colors should be used to reduce building scale and mass.

e. Primary building entries should be easily identified through the use of prominent architectural elements, signage, landscaping, decorative hardscape, lighting, canopies, roof form, architectural projections, columns, vertical and/or horizontal elements, and other design features that help emphasize a building's entry.

f. Building elevations, whether front, side, or rear, that are visible from public rights-of-way should be architecturally detailed to incorporate quality materials and architectural features that reflect the theme of surrounding structures and facades. Building entrances should be readily identifiable. The use of recesses, projections, columns, and other design elements to articulate entrances is encouraged.

g. Facades should include vertical and horizontal variations in wall planes, building projections, door and window bays, and similar elements. Building articulation should be present on the side and rear walls of the buildings if visible from the adjacent streets (Pacific Coast Highway, Mariposa Avenue, Holly Avenue, Indiana Street, and Palm Avenue) and the western facing building facades in the PCC Mixed-Use 2 (PCC MU-2) land use district.

h. The exterior surfaces of buildings for the ground floor must be protected with anti-graffiti coating where not screened by shrubs, vines and trees.

4. Color and Materials

a. Colors and materials should be consistent and complementary throughout the Project area.

b. Exterior materials and architectural details should complement each other and should be stylistically consistent.

c. Building materials must be durable and resistant to damage, defacing, and general wear and tear. Acceptable building materials may include concrete, fiber cement siding, stone masonry, metal, stucco, glass and/or other contemporary composites.

d. Building materials that support sustainability through the use of environmentally sound building materials and local resources (e.g., locally available, contain high recycled-content, are reused, come from renewable sources, and that contain low volatile organic compound (VOC) levels) is highly encouraged.

5. Screening and Mechanical Equipment

a. All screening devices should be compatible with the architecture, materials and colors of the building.

b. Loading docks, bays and parking spaces, delivery service areas, outdoor storage areas, stand-alone mechanical equipment facilities, should be located and designed to minimize their visibility, circulation conflicts and adverse noise impacts. Sound attenuation walls should be used where appropriate to reduce noise where required by code or the Project's environmental analysis.

c. Utility and mechanical equipment should be screened from view of public streets and nearby buildings on all sides with landscaping and/or architectural elements.

d. Rooftop mounted equipment visible from the surrounding area, adjacent buildings, and any public rights-of-way should be screened from public view and equipment should be painted to match the roof color when equipment is visible.

e. Trash and recycling receptacles areas should be completely screened from public view from public rights-of-way with solid walls, wood, and/or landscaping.

f. Ground mounted enclosures should be protected with anti-graffiti coating where not screened by shrubs, vines and trees.



Trash enclosures with architectural screening elements

6. Parking Structures

a. Parking garages should be designed to help reduce the mass and scale of the garage and to ensure their compatibility with surrounding uses.

b. Parking garages should be designed to minimize the view of vehicles in the garage through a combination of screen walls and plantings while providing adequate visibility for security purposes.

c. The exterior elevations of parking structures should be designed to avoid a monotonous, monolithic appearance. This can be accomplished through a menu of options as follows:

i. Minimize horizontal and vertical banding by balancing both horizontal and vertical elements.
ii. Design 'green screens' to provide visual relief.
iii. Use simple, clean geometric forms, and coordinated massing.
iv. Size openings in the parking garage to resemble large windows as in an office building.
v. Use masonry materials that are predominantly light in color but avoid unpainted concrete. Use of accent materials is encouraged.
vi. Avoid a sloping ramp appearance by providing level and uniform spandrels.
vii. Visually define and differentiate between pedestrian and vehicular entrances through appropriate architectural detailing.

d. Stairs and elevators should be located adjacent to a street on the exterior of the structure where lobbies can be exposed to outside view. Safe pedestrian street crossings should be taken into consideration.

e. Lighting levels should be equally distributed to provide uniform illumination over all parking areas.

f. Light sources should be shielded so that the source of the illumination is not seen from outside the structure.

g. The ground floor level of any parking structure must be protected with anti-graffiti coating.

7. Landscaping

A Landscape Plan must be provided to the City concurrently with each site plan review submittal.

General

a. All areas not covered by buildings, parking structures, walkways, driveways, drive aisles, fire lanes, parking spaces, and service areas should be landscaped (with drought tolerant plantings and sustainable hardscapes in accordance with the City's water conservation requirements).

b. Landscaping should enhance the quality of the Project by framing and softening the appearance of buildings, defining site functions, screening undesirable views and buffering incompatible uses.

c. Landscaping at the perimeter of buildings is encouraged to soften the transition between building and adjacent uses and between building and the public right-of-way where feasible. Parking lot landscaping must be distributed evenly to the extent feasible to provide for consistent design and

shading.

d. Landscaped areas should generally incorporate a combination of planting materials utilizing a three-tiered system consisting of: 1) trees, 2) shrubs or vines, 3) groundcover/ornamental grasses. Landscaping should be in scale with the adjacent buildings and be of appropriate size at maturity.

e. Placement of landscaping should not interfere with the lighting of the Project area or restrict access to utilities.

f. Landscaping should be utilized to define edges, buffer adjacent properties, screen parking areas and storage areas.

g. Trees must adequately shade parking lots and provide sufficient area for water quality requirements.

h. Paving materials should include pervious hardscape materials to facilitate water treatment and reduce runoff.

i. Bio-retention areas can be used to detain/percolate run-off in planted swales, raised open-bottomed planters, etc.



On-site storm water capture system

j. Site furnishings including, but not limited to, fixed and moveable seating, trash and recycling receptacles, bike racks, and pedestrian scaled lighting should be of durable and sustainable materials.

8. Walls and Fences

a. Wall and fence design should complement the Project's architecture. Landscaping may be used to soften the appearance of the wall surface.

b. Wall and fencing materials must be made of a durable material. Wall and fencing materials may consist of wrought iron, tubular steel, stone, stucco, or brick. Solid walls should incorporate pilasters with decorative caps and offsets, consistent with the overall architecture.

c. Landscaping should be used to soften the appearance of the wall surfaces and deter graffiti.

d. Walls and fences that are not screened by vines, shrubs and trees should be protected with anti-graffiti coating.

9. Lighting Design

a. The type and location of parking structure, parking area, building and drive aisle/fire lane lighting should prevent direct glare on to adjacent residential properties.

b. Pedestrian scale lighting should be present at all entries, plazas, courtyards, parking lots, parking structures, pedestrian ways, and other areas where nighttime pedestrian activity is expected.

c. Lighting design of fixtures and their structural support should be architecturally compatible with the architecture of the Project.

d. When appropriate, wall-mounted lighting may be incorporated. Wall-mounted lights should be compatible with the building's architectural style.

10. Signage

a. The character of signage, including the location, size, height, design and lighting should be in keeping with the architectural character and monument style of the overall Project.

b. Signs should make a positive contribution to the desired character of the Project and provide for clear identification and wayfinding.

c. Incorporate pedestrian level signage where appropriate throughout the commercial areas in the Specific Plan.

VI. DEVELOPMENT STANDARDS

The following standards are intended to supplement the existing General Plan and ESMC. Where this Specific Plan is inconsistent with the ESMC, the Specific Plan prevails. Where this Specific Plan does not specifically regulate, development must comply with the standards and requirements set forth in the ESMC.

A. PERMITTED USES

Uses within the Specific Plan area are governed by the following Table, by district: Wireless facilities are permitted subject to the requirements of ESMC Chapter 15-19.

Table VI-1
Allowable Uses

Use	PCC MU-1	PCC COM-1	PCC COM-2	PCC COM-3	PCC MU-2
Bars (in conjunction with a Hotel)	-	CUP	CUP	CUP	-
Cafes	P	P	P	P	P
Conference Facility/Conference Rooms (in conjunction with a Hotel)	-	P, A	P, A	P, A	-
Fitness Facility or Private Training Studio	P	A	A	P	P
General Offices	P, A	P, A	A	A	P, A
General Storage	A	A	A	A	A
Hotels	-	CUP	CUP	CUP	-
Maintenance Buildings/Facilities (in conjunction with a Hotel or in in conjunction with a multiple-family residential building)	A	A	A	A	A
Medical/Dental Offices	P	-	-	P	P
Multiple-family residential lease office	P	-	-	-	P
Multiple-family residential dwellings (apartments, townhomes)	P	-	-	-	P

Off-site sale of alcohol at retail establishments	AUP	AUP	AUP	AUP	AUP
On-site sale and consumption of alcohol at restaurants and cafes	AUP	AUP	AUP	AUP	AUP
On-site sale and consumption of alcohol at bars, other than wine bars	-	CUP	CUP	CUP	-
On-site sale and consumption of alcohol at wine bars	CUP	CUP	CUP	CUP	CUP
Outdoor Dining	A	A	A	A	A
Parking structures and surface parking lots	A	A	A	A	A
Recreational facilities or multipurpose recreational building or room accessory to multi-family residential uses or hotels	A	A	A	A	A
Restaurants, full service	P	A	A	P, A	P
Restaurants, fast food	P	A	P, A	P, A	P
Retails Sales - including convenience stores and General Retail Stores (excluding building material stores, warehouse retail showrooms, and off-site sale alcohol sales)	P, A	A	A	P, A	P, A
Retail Services (including Personal Services and Business and Consumer Support Services)	P, A	A	A	P, A	P, A
Wireless Communications Facilities (Pursuant to ESMC Chapter 15-19)	AUP, CUP	AUP, CUP	AUP, CUP	AUP, CUP	AUP, CUP
Any use customarily incidental to a permitted use	A	A	A	A	A
All uses that are not permitted, conditionally permitted or determined to be similar uses as specified above.	-	-	-	-	-

AUP	**Administrative Use Permit**
A	**Permitted Accessory Use**
CUP	**Conditional Use**
P	**Permitted Use**
--	**Not Permitted**

Note: Pursuant to the ESMC, uses of a similar nature which are unlisted in Table IV-1 may be considered by the Director of Planning and Building Safety, subject to appeal to the Planning Commission.

B. DEVELOPMENT STANDARDS

1. Lot Area

a. The minimum building lot area is 10,000 gross square feet in all land use districts.

2. Height

a. Buildings and structures within the PCC Mixed-Use 1 (PCC MU-1) land use district in the Specific Plan cannot exceed 90 feet in height including elevator/stairwell roof projections, measured from lowest finished grade to the highest point of measurement. Light standards on roof level parking areas and roof level recreational facilities/open space areas are permitted and they cannot exceed 14 feet in height. Exceptions to building height are permitted in accordance with ESMC §15-2-3.

b. Buildings and structures within the PCC Commercial-1 (PCC COM-1) land use district in the Specific Plan cannot exceed 105 feet in height, measured from lowest finished grade to the highest point of measurement. Exceptions to building height are permitted in accordance with ESMC §15-2-3.

c. Buildings and structures within the PCC Commercial-2 (PCC COM-2) land use district in the Specific Plan cannot exceed 100 feet in height, measured lowest finished grade to the highest point of measurement. Exceptions to building height are permitted in accordance with ESMC §15-2-3.

d. Buildings and structures within the PCC Commercial-3 (PCC COM-3) land use district in the Specific Plan cannot exceed 68 feet in height including elevator/stairwell roof projections, measured from lowest finished grade to the highest point of measurement. Light standards on roof level parking areas are permitted and they cannot exceed 14 feet in height. Exceptions to building height are permitted in accordance with ESMC §15-2-3.

e. Buildings and structures within the PCC Mixed-Use 2 (PCC MU-2) land use district in the Specific Plan cannot exceed 85 feet in height including

elevator/stairwell roof projections, measured from lowest finished grade to the highest point of measurement. Light standards on roof level parking areas and roof level recreational facilities/open space areas are permitted and they cannot exceed 14 additional feet in height. Exceptions to building height are permitted in accordance with ESMC §15-2-3.

3. Setbacks

a. Pacific Coast Highway: Building and structures within the PCC Mixed-Use 1 (PCC MU-1) land use district, the PCC Commercial-1 (PCC COM-1) land use district, the PCC Commercial-2 (PCC COM-2) land use district, the PCC Commercial-3 (PCC COM-3) land use district, and the PCC Mixed-Use 2 (PCC MU-2) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Pacific Coast Highway.

b. Mariposa Avenue (north and south sides): Buildings and structures within the PCC Commercial-3 (PCC COM-3) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Mariposa Avenue. Buildings and structures within the PCC Mixed-Use 2 (PCC MU-2) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Mariposa Avenue.

c. Holly Avenue: Buildings and structures within the PCC Mixed-Use 1 (PCC MU-1) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Holly Avenue.

d. Indiana Street: Building and structures within the PCC Mixed-Use 1 (PCC MU-1) land use district, the PCC Commercial-1 (PCC COM-1) land use district, the PCC Commercial-2 (PCC COM-2) land use district, and the PCC Commercial-3 (PCC COM-3) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Indiana Street.

e. Palm Avenue: Buildings and structures within the PCC Mixed-Use 2 (PCC MU-2) land use district in this Specific Plan must be setback a minimum of zero feet (0') from the adjoining public right-of-way of Palm Avenue.

f. Interior Setbacks: Minimum interior setbacks for buildings and structures in the PCC Commercial-1 (PCC COM-1), the PCC Commercial-2 (PCC COM-2) and the PCC Commercial-3 (PCC COM-3) land use districts within the Specific Plan must be setback a minimum of zero feet (0'). Parking and loading spaces must maintain a minimum of zero feet (0').

g. Interior Setbacks in the PCC Mixed-Use 1 (PCC MU-1) land use district:

Buildings and structures in the PCC Mixed-Use 1 (PCC MU-1) land use district within the Specific Plan must maintain a minimum of zero feet (0') from each interior lot line. Parking and loading spaces may maintain a minimum of zero feet (0').

h. Interior and Rear Setbacks in the PCC Mixed-Use 2 (PCC MU-2) land use district: The apartment building and townhomes in the PCC Mixed-Use 2 (PCC MU-2) must maintain a minimum of forty-one feet (41') from the western lot line. The apartment building and townhomes must maintain a minimum of ten feet (10') and balconies, decks and patios must maintain a minimum of five feet (5') from all other interior lot lines except that only a minimum of 3 feet (3') is required from the interior property line between the 2 parcels in the PCC Mixed-Use 2 (PCC MU-2) land use district. Accessory buildings in the PCC Mixed-Use 2 (PCC MU-2) land use district within the Specific Plan must maintain a minimum of ten feet (10') from each interior or rear lot line. Structures in the PCC Mixed-Use 2 (PCC MU-2) land use district within the Specific Plan must maintain a minimum of three feet (3') from each interior or rear lot line. Fences and walls may be located at zero feet (0'). Parking and loading spaces may maintain a minimum of 0 feet (0') from the interior property line between the 2 parcels in the PCC Mixed-Use 2(PCC MU-2) land use district.

i. Exceptions to setback requirements are permitted subject to the requirements of ESMC § 15-2-7 Open Space Areas and Encroachments, and as permitted in Sections VI(D) and VI(E) of this Specific Plan.

4. Lot Frontage

a. A minimum of 100 feet of frontage must be provided for all lots on a dedicated public street, except that only a minimum of 50 feet of frontage must be provided for a lot with frontage on Palm Avenue. Lot frontage only applies to ground parcels and not to airspace parcels.

5. Residential Density

a. A maximum of 120 dwelling units is permitted in the PCC Mixed-Use 1 (PCC MU-1) land use district.

b. A maximum of 143 dwelling units is permitted in the PCC Mixed-Use 2 (PCC MU-2) land use district.

6. Floor Area

Floor area shall be based upon the net floor area definition established in this Section VI(B)(6)(f) below.

a. The maximum floor area permitted in the PCC Mixed-Use 1 (PCC MU-1) land use district is 2.70:1.

b. The maximum floor area permitted in the PCC Commercial-1 (PCC COM-1) land use district is 2.51:1.

c. The maximum floor area permitted in the PCC Commercial-2 (PCC COM-2) land use district is 2.28:1.

d. The maximum floor area permitted in the PCC Commercial-3 (PCC COM-3) land use district is 0.16:1.

e. The maximum floor area permitted in the PCC Mixed-Use 2 (PCC MU-2) is 2.29:1.

f. Net floor area consists of the area of all floors, stories or levels, as measured to the interior of a building's perimeter walls. Space devoted to the following is not included when determining the total net floor area within a building or structure:

1. Balconies, decks, patios, porches and verandas that are covered up to a cumulative total of 100 square feet per unit for multiple-family residential dwellings in the in the PCC MU-1 and PCC MU-2 land use districts;
2. Balconies, decks, patios, porches and verandas that are covered up to a cumulative total of 300 square feet per townhome unit in the PCC MU-2 land use district;
3. Elevator shafts;
4. Stairwells and stairway enclosures;
5. Courts, courtyards or atriums;
6. Rooms exclusively holding building operating equipment;
7. Parking spaces at or above grade and access thereto;
8. Structures or portions of buildings or structures devoted exclusively for parking;
9. Restrooms in common areas of nonresidential buildings; and
10. Up to 500 square feet of interior floor area of an attached garage per townhome unit in the PCC MU-2 land use district.

g. Gross floor area consists of the area included within the surrounding exterior walls of a building or portion thereof, exclusive of garages, vent shafts, and courts. The floor area of a building, or portion thereof, not provided with surrounding exterior walls is the usable area under the horizontal projection of the roof or floor above. Covered balconies, decks, patios, porches and verandas for residential uses up to a cumulative total of 100 square feet for multiple-family residential dwellings per unit and 300 square feet per townhome unit are excluded.

6. Walls and Fences

a. All walls and fences must comply with ESMC § 15-2-4 except as specified in Section VI(B)(2) of this Specific Plan and except that the maximum height of retaining walls in the PCC Mixed-Use 1 (PCC MU-1) land use district cannot exceed 15 feet.

b. Razor wire is not permitted.

c. Chain link fencing is not permitted that is visible from any public rights-of-way.

8. **Accessory Structures**

a. Trash and recycling areas, outdoor storage areas, utility and mechanical equipment, rooftop and ground mounted equipment, transformers and similar structures are permitted subject to screening requirements in ESMC § 15-2-8 and the Design Guidelines in Section V.A(5) of this Specific Plan.

b. Other permitted accessory structures include architectural landscape features per Section VI(E) Landscaping of this Specific Plan and playground equipment.

C. CIRCULATION

1. Public streets must be designed and constructed in accordance with the General Plan and in the overall right-of-way size identified in the Street Classification and Standards (Exhibit C-8) in the Circulation Element of the General Plan or as exempted or a waiver granted subject to the regulations in ESMC Chapter 15-24A Right of Way Dedications and Improvements. No private streets are located within the Specific Plan area. A portion of one public street, Mariposa Avenue (a commercial collector), bisects the northern and southern portions of the Specific Plan area. Streets that adjoin the boundaries of the Specific Plan area include Pacific Coast Highway (a major arterial street that is a Caltrans owned State Highway Facility), Holly Avenue, Indiana Street and Palm Avenue. Holly Avenue, Indiana Street and Palm Avenue are classified as local streets. A portion of Mariposa Avenue between Indiana Street and Pacific Coast Highway is proposed to be expanded on the south side of the street to include a dedicated right turn lane (eastbound on Mariposa Avenue to southbound on Pacific Coast Highway.

D. PARKING AND LOADING

1. Parking and loading must be provided in accordance with the requirements of ESMC Chapter 15-15, except as provided below:

a. Multiple-family Residential Parking: A minimum of 1 parking space will

be provided for each studio unit. A minimum of 1.5 parking spaces will be provided for each one-bedroom unit. A minimum of 2 parking spaces will be provided for each two-bedroom unit. A minimum of 1/3 of a parking space per residential unit will be provided for guest parking. Guest parking for multiple-family residential uses may be co-located and shared with parking for commercial uses. Required non-guest multiple-family residential parking is permitted to be shared with parking that is required for commercial uses up to a maximum of five percent (5%) of the total required parking. The maximum five percent (5%) of shared multiple-family residential parking is based upon the total parking provided within the entire Specific Plan area and is not calculated for individual lots.

b. Multiple-family Residential Parking for Affordable Units: A minimum of 0.5 parking spaces will be provided for each studio unit. A minimum of 1 parking space will be provided for each one-bedroom unit. A minimum of 1.5 parking spaces will be provided for each two-bedroom unit. No guest parking spaces will be required for affordable units.

c. Multiple-family Residential Parking for Townhomes (Condominiums): Townhomes will be provided a two-car garage. A minimum of 1/3 of a parking space per residential unit will be provided for guest parking.

d. The number of parking spaces required for uses other than multiple-family uses specified above will be determined based upon review and approval of a parking demand study which may include shared use analysis.

e. Compact Parking: Compact parking is permitted for a maximum of twenty percent (20%) of spaces for residential and commercial uses.

f. Tandem Parking: Tandem parking is permitted for a maximum of twenty percent (20%) of spaces for residential uses.

g. Vehicle Lifts: Vehicle lifts are permitted for a maximum of ten percent (10%) of parking spaces for multiple-family residential and hotel uses. Vehicle lifts are not permitted for other commercial and retail uses. Vehicle lifts would be permitted in parking structures. A vehicle lift may only be used to store two (2) vehicles vertically where a minimum vertical height clearance in the parking structure is a minimum of fourteen feet (14') clear of obstructions. Both the upper and lower space where a lift is used count toward the maximum percentage. A vehicle lift may be permitted only with a key locking mechanism and an automatic shutoff safety device which is installed in accordance with manufacturer specifications. Maintenance of vehicle lifts is required in accordance with manufacturer specifications. Lifts shall be maintained in good working condition. Lifts shall be maintained through either a maintenance contract or self-performance and they may be inspected by the City of El Segundo.

h. Loading Spaces: Two small truck loading spaces (as defined in ESMC Section 15-15-7 are required in the PCC Mixed-Use 1 (PCC MU-1) land use district to serve the multiple-family residential and commercial uses. Two small truck loading spaces are required in the PCC Mixed-Use 2 (PCC MU-2) land use district to serve the multiple-family residential and commercial uses. One small truck loading space is required for the commercial uses in the PCC Commercial-3 (PCC COM-3) land use district.

i. Parking Space Dimensions (for All Residential and Commercial Uses): All standard parking spaces must be a minimum of 8'-6" in width by 18'-0" in length. All compact parking spaces must be a minimum of 8'-6" in width by 15'-0" in length.

j. Off-site parking and off-site loading is permitted. The parking and loading spaces must be located on private property within the boundary of the Specific Plan area it serves unless otherwise approved by the Planning Commission. A written agreement must be executed by all parties concerned, and recorded to the satisfaction of the Director of Development Services and the City Attorney assuring the continued availability of the number of parking spaces and loading spaces located off-site. Reciprocal access easements or covenants must be recorded for contiguous lots before issuance of a building permit and must be shown or noted on the applicable site plans.

k. Parking lots and driveways may straddle lot lines subject to provisions in a reciprocal parking and access easement or covenant. Driveways that connect parking lots with a right-of-way may encroach into a required landscape setback. Such documents must provide provisions for shared maintenance.

2. Preferential parking must be provided for carpools and vanpools.

3. Bicycle parking and EV Charging must comply with the stricter of ESMC Chapters 15-15 and 15-16 or Cal Green Code.

E. LANDSCAPING

This section will ensure that adequate landscaping area and permanent maintenance is provided for the development.

Landscaped areas must be provided and permanent irrigation systems installed in the landscaped areas at: 1) around the perimeter of the buildings in the setbacks, 2) within the required setbacks along the property perimeter and, 3) in the Vehicular Use Areas (VUAs) as defined in ESMC §15-1-6.

A Landscape Master Plan must be prepared for each sub-district of the Specific Plan area to ensure a unified appearance implementing the intent of the Design Guidelines and objectives of this Specific Plan. The Landscape Master Plan must be prepared by a licensed landscape architect and it must be submitted to the City concurrently with the first site plan review within the Specific Plan area.

ALL LANDSCAPING

1. Landscaping must conform to the City's Water Conservation in Landscaping requirements as set forth in ESMC Chapter 15-15A.

BUILDING PERIMETER LANDSCAPING

1. Except as otherwise allowed by this Plan, a minimum horizontal depth of five feet of landscape materials, excluding curbs, must be provided around each building except for entrances to buildings and any other required paved areas. In instances where two buildings are separated by ten feet, the landscape requirement may be reduced to allow for pedestrian walkways/access.

PROPERTY PERIMETER LANDSCAPING

1. Landscaping must be provided in all property perimeter areas except where buildings, driveways, pedestrian walkways, driveway visibility and corner clearance areas are located. One shade tree must be provided for every 25 feet of street frontage where landscaping is provided. One shade tree must be provided for every 25 feet along interior property lines where landscaping is provided in the PCC Mixed-Use 2 (PCC MU-2) land use district. Trees are not required to be evenly spaced.

2. The following encroachments are permitted into the landscaped setback areas:

    a. "Architectural landscape features" including fountains, water features and waterfalls, free-standing arbors/pergolas, and similar features, may encroach into the landscaped setback area subject to site plan review, provided a minimum landscaped setback of three feet is maintained. The features may cover a maximum of twenty-five percent of the total area of the setback and be a maximum of twenty feet in height.

VEHICULAR USE AREAS

1. Vehicular Use Areas (VUA) include surface parking lots. Landscaping in the VUAs must cover a minimum of five percent of the VUA and be distributed throughout the VUA for any new surface parking lots. Such landscaping is in addition to the required property perimeter and building perimeter landscaping.

    a. Planting areas containing trees must have a minimum width of 5 feet except

for existing planting areas. Trees are required to provide shade.

MINIMUM SIZES FOR PLANT MATERIAL

1. The minimum tree container size for all trees on site shall be provided as follows:

a. At least twenty percent (20%) of the trees must be thirty-six inch (36") box size or larger.

b. At least thirty percent (30%) of the trees must be twenty-four inch (24") box size or larger.

c. The remaining fifty percent (50%) must be fifteen (15) gallon size or larger.

d. The Director of Development Services may approve smaller tree container sizes than required based on site conditions, however no tree may be smaller than a fifteen (15) gallon size.

2. Shrubs must be planted from a minimum five (5) gallon size container. One (1) gallon size containers may be allowed for shrubs that are not commonly available in five (5) gallon size containers, subject to approval by the Director of Development Services.

F. COMMON RECREATION FACILITIES/OPEN SPACE AND PRIVATE OPEN SPACE

Common recreation facilities/open space and private open space are required for multiple-family residential uses in the PCC Mixed-Use 1 and PCC Mixed-Use 2 districts. Common recreation facilities/open space are not required for the townhomes.

Common recreation facilities/open space are facilities that are accessible to all multiple-family residential unit occupants. Common recreation facilities may include indoor and/or outdoor areas. Indoor areas may include, but are not limited to, gyms or fitness areas, indoor pools, indoor spas and saunas, multi-purpose recreation and community rooms and similar facilities.

Private open space includes decks, patios and balconies that are accessible from the multi-family residential unit or townhome unit and exclusively devoted to that unit. There is no requirement to provide private open space for each multiple-family residential unit, however, any private open space that is provided must meet minimum dimensions. In order to count towards these requirements, the minimum dimensions for any private open space shall be 5 feet in width by 5 feet in length.

Multiple-family residential units must provide an average of 100 square feet per unit in combined common recreation facilities/open space and private open space. Townhomes must provide a minimum of 100 square feet of total private open space. In order to count towards these requirements, the minimum dimensions of private open space for townhome units shall be 5 feet in width by 5 feet in length.

G. PUBLIC SAFETY

In an effort to ensure the safety of residents, employees and visitors to the Pacific Coast Commons Specific Plan area, the following strategies must be incorporated into site development:

1. Lighting must be adequate throughout the Specific Plan area and shielded to minimize off-site illumination. Submittal of photometric studies is required as part of any site plan review submittal which includes parking lots, and parking structures in the Specific Plan area.

2. The site design and operation must comply with fire and police safety regulations with regard to site layout, building configurations, landscape design, and infrastructure requirements.

3. Street lighting must be provided in accordance with ESMC requirements.

H. SIGNAGE

1. Signage within the Specific Plan area must conform to the signage regulations of ESMC Chapter 15-18 except as established and approved in a Master Sign Program for each land use district in the Specific Plan. The existing Master Sign Program for the existing buildings in the Specific Plan area (for the Aloft and the Fairfield Inn and Suites hotels) remains in effect and is excluded from the Master Sign Program requirements for the new development.

2. Section 15-18-3 shall apply relating to exempt signs.

3. An Electronic Message Center sign as defined in ESMC Chapter 15-18 that is a wall sign is permitted up to 150 square feet in size. Such sign must be located within 100 feet of Pacific Coast Highway.

4. Neon signage is not permitted on any building façades facing west in the PCC Mixed-Use 1 land use district or on any building façade facing west in the PCC Commercial-3 land use district. Neon signage is not permitted on the Palm Avenue street frontage or on any building facades facing west in the PCC Mixed-Use 2 land use district between Mariposa and Palm Avenues or along the Palm Avenue.

5. The following signs are not permitted within the Specific Plan:

    - Balloons or other inflated devices or signs used in conjunction with commercial premises for commercial purposes; unless allowed by a temporary sign permit
    - Beacon signs
    - Billboards, as defined in the ESMC
    - Pole signs
    - Signs incorporating flashing or blinking lights

- Signs that flash, rotate, pulsate or otherwise move in a way to create a traffic hazard
- Signs that emit sounds, odor or visible matter such as smoke or steam
- Strobe lights used in signs; and
- Trailer or portable signs except for sandwich board signs for restaurants.

6. A Master Sign Program for each land use district in the Specific Plan area must be developed and submitted for review and approval by the Director of Development Services concurrent with the first site plan review in that land use district within the Specific Plan. The Master Sign Program must include the following elements:

   - Master signage (entryways, common sign design throughout the Specific Plan area);
   - Sign standards developed for the mixed-use multiple-family residential and commercial development;
   - Provisions for wayfinding and decorative elements such as banners;
   - General features that all signs are required to comply with; and
   - Regulations for temporary signs (including construction signs).

I. SUSTAINABILITY

1. All new development must have buildings designed to be energy efficient to meet or exceed Title 24 requirements.

2. The Project parking lot areas must include storm water management practices that treat storm water runoff in compliance with the ESMC and all applicable law.

3. Bicycle parking must comply with the ESMC and Cal Green Code.

4. Exterior lighting must be energy efficient and designed to minimize light pollution.

5. Low-emitting building materials must be utilized.

6. Roof structures of new buildings must be designed to support solar panels.

7. Reclaimed water must be utilized for all landscaped areas if available and feasible.

J. ENCLOSED AND UNENCLOSED USES

All uses must be conducted wholly within an enclosed building or structure except for the following:

1. Mechanical equipment provided they comply with the requirements of ESMC § 15-

2-8.

2. Outdoor restaurants and cafes incidental to the permitted use, provided they comply with the provisions of ESMC § 15-2-16.

3. Recreation facilities customarily conducted in the open (including but not limited to pools and play equipment).

4. Outdoor private common area for residential developments.

5. Wireless communications facilities (including antennas, and dishes) provided they comply with the requirements of ESMC Chapter 15-19 subject to applicable law.

K. NON-CONFORMING USES AND BUILDINGS

Any existing uses, buildings, structures, parking areas, landscaping and signage located in the PCC Commercial-1 (PCC COM-1), PCC Commercial-2 (PCC COM-2), and PCC Commercial-3 (PCC COM-3) that become non-conforming at the time of adoption of this Specific Plan will be permitted to remain.

Until such time as building permits are issued for development of the Specific Plan, the existing food and beverage building may continue to be used for commercial, restaurant and meeting spaces.

VII. ADMINISTRATION

A. INTRODUCTION

Unless regulated by this Specific Plan, development will be administered and enforced by the City in accordance with the ESMC. This Specific Plan supersedes any conflicts with ESMC zoning regulations.

1. The Director of Development Services may grant administrative use permits in accordance with ESMC Chapter 15-22.

2. The Director of Development Services may make other administrative determinations using the same procedures set forth in ESMC Chapter 15-22.

3. The Director of Development Services may grant adjustments and administrative adjustments in accordance with ESMC Chapter 15-24.

4. The Planning Commission may grant conditional use permits in accordance with ESMC Chapter 15-23.

5. The Director of Development Services may grant off-site parking covenants between parcels within the Specific Plan area in accordance with ESMC Chapter 15-15.

6. The Director of Development Services may grant modifications to the number of parking spaces as determined in a parking demand study in accordance with Section VID of this Plan and ESMC Chapter 15-15.

B. MUNICIPAL CODE REFERENCES

All section references in the Specific Plan refer to the El Segundo Municipal Code (ESMC) as adopted at the time of Specific Plan approval.

C. MODIFICATIONS

1. Major Modifications

The following modifications constitute a Major Modification and require an amendment to this Specific Plan:

a. Any decrease in the required building setbacks as set forth in Section VI.B.3 above;

b. Any increase in the total developable square footage of the entire Specific Plan in excess of the maximum allowable development intensity allowed under the Specific Plan;

c. Any increase in height of buildings or structures on the Property above 5 feet;

d. Any change in use to a use which is not permitted under the Specific Plan, except as approved by the Director in accordance with Chapter 15-22 of the ESMC;

e. Any change in the land use plan categories identified in Exhibit 5 of this plan;

f. Any decrease in the minimum required lot area;

g. Any decrease in the minimum required lot frontage;

h. Any material modification that requires modification to the EIR other than an Addendum; and

i. Any modification deemed by the Director of Development Services as a major modification and requiring amendment to this Specific Plan.

2. Minor Modifications

Any modification to this Specific Plan not listed above as a "major modification," including a use approved subject to an Administrative Use Permit, is a Minor Modification. The Developer may make Minor Modifications without amending this Specific Plan upon the administrative approval of the Director of Development Services or designee, provided that such modifications are consistent with the Development and Design Standards, Applicable Rules, and Project Approvals. Such Minor Modifications may include:

- Modifications to infrastructure sizing based upon final engineering plans approved by the City.

- Adjustments, Administrative Adjustments, Administrative Determinations subject to the requirements in Section VII.A, above.

D. SITE PLAN REVIEW

1. Overview

In order to develop a Project that is in conformance with the uses, density, approved FAR, and Design Guidelines of this Specific Plan, a Site Plan Review ("SPR") application shall be filed with the Development Services Department in accordance with ESMC Chapter 15-30 except as specified below.

2. Site Plan Review - Procedure

a. The Director of Development Services may extend the Site Plan approval for up to two additional years for good cause upon written request of the applicant received prior to expiration of the site plan approval.

b. After the Site Plan is approved, the Director of Development Services may approve minor changes in the Site Plan or its conditions if the Director finds that there are practical reasons for such changes, that such changes do not substantially vary from the previously approved site plan and applicable law and that such changes do not involve deviations from the design's intent.

3. Exempt Activities

The following is a list of activities which are exempt from the site plan review process. This list is not all-inclusive; the Director of Development Services may exempt other activities not listed:

a. All interior changes and alterations

b. Exterior mechanical equipment (heating, air conditioning, water heater, transformers) designed with mechanical equipment screening compatible with the architecture of the building to which it is adjacent or affixed.

c. Minor exterior repairs with the same or similar types of building materials as determined by the Director of Development Services.

d. Minor surface parking area changes and restriping of parking stalls.

e. Re-glazing new mullions.

f. Re-landscaping consistent with the landscape palette.

g. Repainting.

h. Reroofing with similar style roofing materials.

E. AMENDMENT

In accordance with the Government Code §§ 65450-65457, Specific Plans must be prepared, adopted and amended in the same manner as General Plans except that Specific Plans may be adopted by resolution or by ordinance.

This Specific Plan may be amended as necessary by ordinance. Said amendment or amendments do not require a concurrent General Plan amendment unless the Director of Development Services determines that the proposed amendment would substantially affect General Plan goals, policies, objectives or programs.

F. INFRASTRUCTURE IMPROVEMENTS/COORDINATION

The developer and/or property owner shall be responsible for making transportation and infrastructure utility improvements required by the Pacific Coast Commons Specific Plan. All improvements shall be to the specifications of the City of El Segundo Development Services Department, Public Works Department, and/or other applicable departments.

G. FINANCING MEASURES

Implementation and financing of improvements of the Pacific Coast Commons Specific Plan depend exclusively on private investment and development. The developer and/or property owner shall be responsible for financing the project, including all improvements and mitigation measures.

H. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

The Pacific Coast Commons Specific Plan and related entitlements were approved in accordance with the California Environmental Quality Act (CEQA), the State CEQA Guidelines (Guidelines), and City policies adopted to implement the CEQA and the Guidelines.

An Environmental Impact Report was prepared and certified by the City Council which establishes the development thresholds shown in Table VII-1 below.

Table VII-1
California Environmental Quality Act Compliance

EIR Project	Floor Area
The Specific Plan, including the Conceptual Site Plan and Application Materials evaluated within the EIR document.	340,000 gross square feet (new development in Specific Plan)

The existing development located in the Pacific Coast Commons Specific Plan area totals 324,058 gross square feet (Fairfield Inn and Suites hotel is 217,311 gross square feet and the Aloft hotel is 106,747 gross square feet). A portion of the Fairfield Inn and Suites hotel will be demolished. More specifically, the 41,660 square-foot 2-story "food and beverage" building (that contains banquet room facilities, a restaurant and storage uses located at the southwest corner of Pacific Coast Highway and Mariposa Avenue) will be demolished leaving 282,398 square feet of existing development to remain within the Pacific Coast Commons Specific Plan area. The CEQA clearance indicated above analyzes the effects of a maximum of 340,000 gross square feet of new incremental development per the Specific Plan. Based upon the maximum allowable floor area in each land use district, the 340,000 square feet will be comprised of 150,000 gross square feet in the "PCC South" development site (PCC Mixed-Use 1 District), 5,000 gross square feet in the "Fairfield Parking" site (PCC COM-3 District), and 185,000 gross square feet in the "PCC North" site (PCC Mixed-Use 2 District). The Development Project depicted in the Conceptual Site Plan includes 327,068 gross square feet of new development that will occur after the demolition of the existing 41,660 gross square-foot 2-story "food and beverage" building. The demolition of the

41,660 gross square-foot “food and beverage” building will reduce the existing Fairfield Inn and Suites Hotel to 175,651 gross square feet in size.

APPENDIX A

PACIFIC COAST COMMONS SPECIFIC PLAN LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF EL SEGUNDO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1: (APN: 4139-025-075)

LOT 428 IN BLOCK 123 OF EL SEGUNDO, IN THE CITY OF EL SEGUNDO, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22 PAGES 106 AND 107 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2: (APN: 4139-025-073, 074, 076, 081)

LOTS 385, 386, 387, 429 AND 430 IN BLOCK 123 OF EL SEGUNDO, IN THE CITY OF EL SEGUNDO, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22 PAGES 106 AND 107 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 3: (APN: 4139-025-091)

LOTS 382, 383, 384, 431, 432 AND 433 IN BLOCK 123 OF EL SEGUNDO, IN THE CITY OF EL SEGUNDO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 22 PAGES 106 AND 107 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT ALL PETROLEUM, GAS, ASPHALTUM AND OTHER HYDROCARBONS AND OTHER MINERALS, WHETHER SIMILAR TO THOSE HEREIN SPECIFIED OR NOT, WITHIN OR UNDERLYING OR THAT MAY BE PRODUCED FROM PARCELS 1 AND 2, TOGETHER WITH THE EXCLUSIVE RIGHT TO ENTER INTO, ACROSS OR THROUGH THE SUBSURFACE OF SAID LAND FOR THE PURPOSE OF TAKING OR PRODUCING ANY PETROLEUM, GAS, ASPHALTUM, OTHER HYDROCARBONS AND OTHER MINERALS AND UNDER SAID LAND, BY DIRECTIONAL DRILLING OR OTHER SUBSURFACE OPERATIONS AND THE EXCLUSIVE RIGHT TO USE THE SUBSURFACE OF SAID LAND FOR THE PURPOSE OF INJECTING THEREIN, OR WITHDRAWING THEREFROM GAS, OIL, OR OTHER SUBSTANCES, WHETHER HYDROCARBON OR NOT, FOR STORAGE, REPRESSURING, OR OTHER PURPOSES, BUT WITH NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, AS GRANTED TO STANDARD OIL

COMPANY OF CALIFORNIA, A CORPORATION, BY DEED RECORDED APRIL 28, 1947 AS INSTRUMENT NO. 480 IN BOOK 24472 PAGE 357, OFFICIAL RECORDS.

PARCEL 4: (portion of APN: 4139-024-057)

THE WESTERLY 60 FEET OF LOTS 2 AND 9 IN BLOCK 113 OF EL SEGUNDO, IN THE CITY OF EL SEGUNDO, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 20 PAGES 114 AND 115 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 5: (APN: 4139-024-058)

LOTS 1, 2, 9 AND 10 IN BLOCK 113 OF EL SEGUNDO, IN THE CITY OF EL SEGUNDO, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 20 PAGES 114 AND 115 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THEREFROM THE WESTERLY 60 FEET OF SAID LOTS 2 AND 9.

ALSO EXCEPT THEREFROM THE NORTHERLY 181.00 FEET OF SAID LOTS 1 AND 2.

ALSO EXCEPT THE SOUTH 147.03 FEET OF LOT 10.

ALSO EXCEPT THEREFROM ALL PETROLEUM, GAS, ASPHALTUM AND OTHER HYDROCARBONS AND OTHER MINERALS, WHETHER SIMILAR TO THOSE HEREIN SPECIFIED OR NOT, WITHIN OR UNDERLYING OR THAT MAY BE PRODUCED FROM SAID LAND, TOGETHER WITH THE EXCLUSIVE RIGHT TO ENTER INTO, ACROSS OR THROUGH THE SUBSURFACE OF SAID LAND FOR THE PURPOSE OF TAKING OR PRODUCING ANY PETROLEUM AND OTHER HYDROCARBONS, AND OTHER MINERALS IN AND UNDER SAID LAND, BY DIRECTIONAL DRILLING OR OTHER SUBSURFACE OF SAID LAND FOR THE PURPOSE OF INJECTING THEREIN OR WITHDRAWING THEREFROM GAS, OIL OR OTHER SUBSTANCES, WHETHER HYDROCARBON OR NOT, FOR STORAGE, REPRESSURING OR OTHER PURPOSES, BUT WITH NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, AS GRANTED TO STANDARD OIL COMPANY OF CALIFORNIA, A CORPORATION, BY DEED RECORDED APRIL 28, 1947 IN BOOK 24472 PAGE 357, OFFICIAL RECORDS.

PARCEL 6: (portion of APN: 4139-024-057)

A PARCEL OF LAND SITUATED IN THE CITY OF EL SEGUNDO, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, BEING A PORTION OF BLOCK 113 OF EL SEGUNDO, AS PER MAP RECORDED IN BOOK 20, PAGES 114 THROUGH 115, INCLUSIVE, IN THE OFFICE OF THE RECORDER OF SAID COUNTY AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF LOT 1 OF TRACT NO. 48436, AS PER

MAP RECORDED IN BOOK 1180, PAGES 68 THROUGH 69, INCLUSIVE, OF MAPS, IN THE OFFICE OF THE RECORDER OF SAID COUNTY; THENCE ALONG THE SOUTH LINE OF PALM AVENUE SOUTH 89° 58’ 36” EAST 60.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE ALONG THE SOUTH LINE OF PALM AVENUE SOUTH 89° 58’ 36” EAST 13.19 FEET; THENCE SOUTH 00° 03’ 15” WEST 181.00 FEET; THENCE NORTH 89° 58’ 36” WEST 13.11 FEET; THENCE NORTH 00° 01’ 50” EAST 181.00 FEET TO THE TRUE POINT OF BEGINNING.

APN: 4139-025-057 thru 4139-025-058, 4139-025-073 thru 4139-025-076, 4139-025-081, 4139-025-091

Appendix C-1

CalEMMod Outputs

CalEEMod Version: CalEEMod.2016.3.2

Date: 12/8/2020 12:06 PM

Pacific Coast Commons Specific Plan Project
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	763.00	Space	0.00	305,200.00	0
Other Asphalt Surfaces	12.65	1000sqft	0.00	12,650.00	0
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Apartments Mid Rise	263.00	Dwelling Unit	0.00	314,659.00	752
Regional Shopping Center	7.30	1000sqft	5.35	7,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	561.77	**CH4 Intensity (lb/MWhr)**	0.02	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PCC SP. SCAQMD. Adjusted to meet 36.5% RPS (SCE 2018 Sustainability Report).

Land Use - Updated land use assumptions per applicant.

Construction Phase - Updated construction schedule per applicant.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Trips and VMT - Updated per applicant.

Demolition - Phase 1: 41,660 SF of building demo, Phases 2 and 3: 1,938.785 tons of pavement demo.

Grading - 17,000 CY of soil export during Phase 2.

Architectural Coating - Use of low-VOC (50 g/L). Updated SF per phase.

Vehicle Trips - Adjusted trip gen rates per TIA (Fehr and Peers 2020).

Woodstoves - Assume no wood burning devices.

Area Coating - Use of low-VOC arch coating (50 g/L).

Energy Use - Assume compliance with 2019 Title 24 Standards.

Water And Wastewater - Assume 100% aerobic.

Construction Off-road Equipment Mitigation - Water three times daily and replace ground cover.

Mobile Land Use Mitigation - Increase transit accessibility (0.2 miles) and improve pedestrian network.

Water Mitigation - Reduce water consumption by 20% per CalGreen.

Waste Mitigation - Assume 50% waste disposed per AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	1,400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	4,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	4,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	12,300.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	180.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	1,779.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	212,213.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	636,338.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	19071	1959
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblEnergyUse	T24E	179.76	176.16

tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	8.71	7.78
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	78.56	77.77
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	223.55	237.00
tblFireplaces	NumberNoFireplace	26.30	26.00
tblFireplaces	NumberWood	13.15	0.00
tblGrading	AcresOfGrading	21.50	0.74
tblGrading	AcresOfGrading	21.00	3.14
tblGrading	MaterialExported	0.00	17,000.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblLandUse	LandUseSquareFeet	263,000.00	314,659.00
tblLandUse	LotAcreage	6.87	0.00
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	0.17	5.35
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	561.77
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	HaulingTripNumber	189.00	200.00

tblTripsAndVMT	HaulingTripNumber	192.00	200.00
tblTripsAndVMT	HaulingTripNumber	2,125.00	1,720.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	82.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	82.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	300.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	65.00	240.00
tblTripsAndVMT	WorkerTripNumber	18.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	65.00	80.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	160.00
tblVehicleTrips	HS_TTP	19.20	19.40
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	4.96
tblVehicleTrips	ST_TR	158.37	298.59
tblVehicleTrips	ST_TR	49.97	42.00

tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	SU_TR	131.84	248.57
tblVehicleTrips	SU_TR	25.24	21.21
tblVehicleTrips	WD_TR	6.65	5.16
tblVehicleTrips	WD_TR	127.15	239.73
tblVehicleTrips	WD_TR	42.70	35.89
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1139	1.1353	0.7380	1.6000e-003	0.0808	0.0525	0.1333	0.0335	0.0484	0.0819	0.0000	142.6050	142.6050	0.0334	0.0000	143.4402
2022	0.2918	2.3980	2.6886	5.9700e-003	0.1972	0.1049	0.3021	0.0562	0.0983	0.1545	0.0000	532.1323	532.1323	0.0866	0.0000	534.2970
2023	0.3578	2.8637	3.2049	8.9600e-003	0.4668	0.1074	0.5742	0.1505	0.1002	0.2507	0.0000	811.2500	811.2500	0.1099	0.0000	813.9973
2024	1.2030	1.3401	1.9799	5.3600e-003	0.2854	0.0473	0.3327	0.0765	0.0443	0.1208	0.0000	483.9751	483.9751	0.0547	0.0000	485.3423
Maximum	**1.2030**	**2.8637**	**3.2049**	**8.9600e-003**	**0.4668**	**0.1074**	**0.5742**	**0.1505**	**0.1002**	**0.2507**	**0.0000**	**811.2500**	**811.2500**	**0.1099**	**0.0000**	**813.9973**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1139	1.1353	0.7380	1.6000e-003	0.0487	0.0525	0.1012	0.0174	0.0484	0.0659	0.0000	142.6049	142.6049	0.0334	0.0000	143.4401
2022	0.2918	2.3980	2.6886	5.9700e-003	0.1925	0.1049	0.2974	0.0529	0.0983	0.1512	0.0000	532.1320	532.1320	0.0866	0.0000	534.2966
2023	0.3578	2.8637	3.2049	8.9600e-003	0.4116	0.1074	0.5190	0.1198	0.1002	0.2199	0.0000	811.2496	811.2496	0.1099	0.0000	813.9969
2024	1.2030	1.3401	1.9799	5.3600e-003	0.2854	0.0473	0.3327	0.0765	0.0443	0.1208	0.0000	483.9749	483.9749	0.0547	0.0000	485.3421
Maximum	**1.2030**	**2.8637**	**3.2049**	**8.9600e-003**	**0.4116**	**0.1074**	**0.5190**	**0.1198**	**0.1002**	**0.2199**	**0.0000**	**811.2496**	**811.2496**	**0.1099**	**0.0000**	**813.9969**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**8.93**	**0.00**	**6.85**	**15.81**	**0.00**	**8.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3810	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572
Energy	0.0210	0.1825	0.0974	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	951.5079	951.5079	0.0305	0.0104	955.3779
Mobile	0.5356	2.7050	6.4692	0.0267	2.4051	0.0194	2.4245	0.6444	0.0180	0.6624	0.0000	2,478.6409	2,478.6409	0.1112	0.0000	2,481.4205
Waste						0.0000	0.0000		0.0000	0.0000	35.0525	0.0000	35.0525	2.0715	0.0000	86.8410
Water						0.0000	0.0000		0.0000	0.0000	6.6512	94.0989	100.7501	0.0262	0.0153	105.9661
Total	**1.9376**	**2.9188**	**9.2863**	**0.0280**	**2.4051**	**0.0490**	**2.4541**	**0.6444**	**0.0476**	**0.6920**	**41.7037**	**3,528.6976**	**3,570.4013**	**2.2437**	**0.0257**	**3,634.1627**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3810	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572
Energy	0.0210	0.1825	0.0974	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	951.5079	951.5079	0.0305	0.0104	955.3779
Mobile	0.4723	2.3508	4.8704	0.0190	1.6499	0.0141	1.6640	0.4420	0.0131	0.4551	0.0000	1,764.8230	1,764.8230	0.0843	0.0000	1,766.9309
Waste						0.0000	0.0000		0.0000	0.0000	17.5262	0.0000	17.5262	1.0358	0.0000	43.4205
Water						0.0000	0.0000		0.0000	0.0000	5.3210	75.2791	80.6001	0.0210	0.0122	84.7729
Total	**1.8744**	**2.5646**	**7.6875**	**0.0203**	**1.6499**	**0.0437**	**1.6936**	**0.4420**	**0.0427**	**0.4847**	**22.8472**	**2,796.0599**	**2,818.9071**	**1.1758**	**0.0227**	**2,855.0594**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.26**	**12.14**	**17.22**	**27.54**	**31.40**	**10.88**	**30.99**	**31.40**	**10.38**	**29.95**	**45.22**	**20.76**	**21.05**	**47.59**	**11.89**	**21.44**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition - Phase 1	Demolition	10/1/2021	10/31/2021	5	21	
2	Site Preparation - Phase 1	Site Preparation	11/1/2021	11/30/2021	5	22	
3	Grading - Phase 1	Grading	12/1/2021	1/31/2022	5	44	
4	Building Construction - Phase 1	Building Construction	2/1/2022	10/31/2022	5	195	
5	Paving - Phase 1	Paving	11/1/2022	12/31/2022	5	44	
6	Architectural Coating - Phase 1	Architectural Coating	11/1/2022	12/31/2022	5	44	
7	Demolition - Phases 2 and 3	Demolition	1/1/2023	2/28/2023	5	42	
8	Site Preparation - Phases 2 and 3	Site Preparation	3/1/2023	3/30/2023	5	22	
9	Grading - Phases 2 and 3	Grading	4/1/2023	5/30/2023	5	42	
10	Building Construction - Phases 2 and 3	Building Construction	6/1/2023	5/31/2024	5	262	
11	Paving - Phases 2 and 3	Paving	6/1/2024	7/31/2024	5	43	
12	Architectural Coating - Phases 2 and 3	Architectural Coating	6/1/2024	7/31/2024	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition - Phase 1	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phase 1	Excavators	3	8.00	158	0.38
Demolition - Phase 1	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase 1	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phase 1	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	1	8.00	158	0.38
Grading - Phase 1	Graders	1	8.00	187	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase 1	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase 1	Cranes	1	7.00	231	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Paving - Phase 1	Pavers	2	8.00	130	0.42
Paving - Phase 1	Paving Equipment	2	8.00	132	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Demolition - Phases 2 and 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phases 2 and 3	Excavators	3	8.00	158	0.38
Demolition - Phases 2 and 3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phases 2 and 3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phases 2 and 3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phases 2 and 3	Excavators	1	8.00	158	0.38
Grading - Phases 2 and 3	Graders	1	8.00	187	0.41
Grading - Phases 2 and 3	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phases 2 and 3	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phases 2 and 3	Cranes	1	7.00	231	0.29

Building Construction - Phases 2 and 3	Forklifts	3	8.00	89	0.20
Building Construction - Phases 2 and 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phases 2 and 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phases 2 and 3	Welders	1	8.00	46	0.45
Paving - Phases 2 and 3	Pavers	2	8.00	130	0.42
Paving - Phases 2 and 3	Paving Equipment	2	8.00	132	0.36
Paving - Phases 2 and 3	Rollers	2	8.00	80	0.38
Architectural Coating - Phases 2 and 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition - Phase 1	6	80.00	20.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase 1	7	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	6	80.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	120.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	40.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition - Phases 2 and 3	6	100.00	40.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phases 2 and 3	7	120.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phases 2 and 3	6	160.00	20.00	1,720.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phases 2 and 3	9	300.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phases 2 and 3	6	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phases 2 and 3	1	240.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Demolition - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3301	0.2264	4.1000e-004		0.0163	0.0163		0.0151	0.0151	0.0000	35.7008	35.7008	0.0101	0.0000	35.9520
Total	**0.0332**	**0.3301**	**0.2264**	**4.1000e-004**	**0.0205**	**0.0163**	**0.0368**	**3.1000e-003**	**0.0151**	**0.0182**	**0.0000**	**35.7008**	**35.7008**	**0.0101**	**0.0000**	**35.9520**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0261	5.5300e-003	8.0000e-005	1.7200e-003	8.0000e-005	1.8000e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4670	7.4670	5.1000e-004	0.0000	7.4798
Vendor	6.0000e-004	0.0203	5.0400e-003	5.0000e-005	1.3200e-003	4.0000e-005	1.3600e-003	3.8000e-004	4.0000e-005	4.2000e-004	0.0000	5.1271	5.1271	3.2000e-004	0.0000	5.1352
Worker	3.5000e-003	2.5900e-003	0.0293	9.0000e-005	9.2200e-003	7.0000e-005	9.2900e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	8.0275	8.0275	2.2000e-004	0.0000	8.0329
Total	**4.8300e-003**	**0.0490**	**0.0398**	**2.2000e-004**	**0.0123**	**1.9000e-004**	**0.0125**	**3.3000e-003**	**1.8000e-004**	**3.4800e-003**	**0.0000**	**20.6216**	**20.6216**	**1.0500e-003**	**0.0000**	**20.6479**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-003	0.0000	7.6000e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3301	0.2264	4.1000e-004		0.0163	0.0163		0.0151	0.0151	0.0000	35.7008	35.7008	0.0101	0.0000	35.9520
Total	**0.0332**	**0.3301**	**0.2264**	**4.1000e-004**	**7.6000e-003**	**0.0163**	**0.0239**	**1.1500e-003**	**0.0151**	**0.0163**	**0.0000**	**35.7008**	**35.7008**	**0.0101**	**0.0000**	**35.9520**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0261	5.5300e-003	8.0000e-005	1.7200e-003	8.0000e-005	1.8000e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4670	7.4670	5.1000e-004	0.0000	7.4798
Vendor	6.0000e-004	0.0203	5.0400e-003	5.0000e-005	1.3200e-003	4.0000e-005	1.3600e-003	3.8000e-004	4.0000e-005	4.2000e-004	0.0000	5.1271	5.1271	3.2000e-004	0.0000	5.1352
Worker	3.5000e-003	2.5900e-003	0.0293	9.0000e-005	9.2200e-003	7.0000e-005	9.2900e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	8.0275	8.0275	2.2000e-004	0.0000	8.0329
Total	**4.8300e-003**	**0.0490**	**0.0398**	**2.2000e-004**	**0.0123**	**1.9000e-004**	**0.0125**	**3.3000e-003**	**1.8000e-004**	**3.4800e-003**	**0.0000**	**20.6216**	**20.6216**	**1.0500e-003**	**0.0000**	**20.6479**

3.3 Site Preparation - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0225	0.0000	0.0225	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7793	36.7793	0.0119	0.0000	37.0767
Total	**0.0428**	**0.4455**	**0.2327**	**4.2000e-004**	**0.0225**	**0.0225**	**0.0450**	**0.0167**	**0.0207**	**0.0373**	**0.0000**	**36.7793**	**36.7793**	**0.0119**	**0.0000**	**37.0767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0106	2.6400e-003	3.0000e-005	6.9000e-004	2.0000e-005	7.1000e-004	2.0000e-004	2.0000e-005	2.2000e-004	0.0000	2.6856	2.6856	1.7000e-004	0.0000	2.6899
Worker	2.2900e-003	1.6900e-003	0.0192	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.2561	5.2561	1.4000e-004	0.0000	5.2597
Total	**2.6000e-003**	**0.0123**	**0.0218**	**9.0000e-005**	**6.7200e-003**	**7.0000e-005**	**6.7900e-003**	**1.8000e-003**	**6.0000e-005**	**1.8600e-003**	**0.0000**	**7.9417**	**7.9417**	**3.1000e-004**	**0.0000**	**7.9495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.3300e-003	0.0000	8.3300e-003	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7792	36.7792	0.0119	0.0000	37.0766
Total	**0.0428**	**0.4455**	**0.2327**	**4.2000e-004**	**8.3300e-003**	**0.0225**	**0.0308**	**6.1700e-003**	**0.0207**	**0.0269**	**0.0000**	**36.7792**	**36.7792**	**0.0119**	**0.0000**	**37.0766**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0106	2.6400e-003	3.0000e-005	6.9000e-004	2.0000e-005	7.1000e-004	2.0000e-004	2.0000e-005	2.2000e-004	0.0000	2.6856	2.6856	1.7000e-004	0.0000	2.6899
Worker	2.2900e-003	1.6900e-003	0.0192	6.0000e-005	6.0300e-003	5.0000e-005	6.0800e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.2561	5.2561	1.4000e-004	0.0000	5.2597
Total	**2.6000e-003**	**0.0123**	**0.0218**	**9.0000e-005**	**6.7200e-003**	**7.0000e-005**	**6.7900e-003**	**1.8000e-003**	**6.0000e-005**	**1.8600e-003**	**0.0000**	**7.9417**	**7.9417**	**3.1000e-004**	**0.0000**	**7.9495**

3.4 Grading - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0500e-003	0.0000	8.0500e-003	5.7100e-003	0.0000	5.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.1824	3.4000e-004		0.0133	0.0133		0.0123	0.0123	0.0000	29.9618	29.9618	9.6900e-003	0.0000	30.2040
Total	**0.0263**	**0.2845**	**0.1824**	**3.4000e-004**	**8.0500e-003**	**0.0133**	**0.0214**	**5.7100e-003**	**0.0123**	**0.0180**	**0.0000**	**29.9618**	**29.9618**	**9.6900e-003**	**0.0000**	**30.2040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0111	2.7600e-003	3.0000e-005	7.2000e-004	2.0000e-005	7.5000e-004	2.1000e-004	2.0000e-005	2.3000e-004	0.0000	2.8077	2.8077	1.8000e-004	0.0000	2.8121
Worker	3.8300e-003	2.8300e-003	0.0321	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6800e-003	7.0000e-005	2.7500e-003	0.0000	8.7921	8.7921	2.4000e-004	0.0000	8.7980
Total	**4.1600e-003**	**0.0140**	**0.0348**	**1.3000e-004**	**0.0108**	**1.0000e-004**	**0.0109**	**2.8900e-003**	**9.0000e-005**	**2.9800e-003**	**0.0000**	**11.5998**	**11.5998**	**4.2000e-004**	**0.0000**	**11.6101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9800e-003	0.0000	2.9800e-003	2.1200e-003	0.0000	2.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.1824	3.4000e-004		0.0133	0.0133		0.0123	0.0123	0.0000	29.9617	29.9617	9.6900e-003	0.0000	30.2040
Total	**0.0263**	**0.2845**	**0.1824**	**3.4000e-004**	**2.9800e-003**	**0.0133**	**0.0163**	**2.1200e-003**	**0.0123**	**0.0144**	**0.0000**	**29.9617**	**29.9617**	**9.6900e-003**	**0.0000**	**30.2040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0111	2.7600e-003	3.0000e-005	7.2000e-004	2.0000e-005	7.5000e-004	2.1000e-004	2.0000e-005	2.3000e-004	0.0000	2.8077	2.8077	1.8000e-004	0.0000	2.8121
Worker	3.8300e-003	2.8300e-003	0.0321	1.0000e-004	0.0101	8.0000e-005	0.0102	2.6800e-003	7.0000e-005	2.7500e-003	0.0000	8.7921	8.7921	2.4000e-004	0.0000	8.7980
Total	**4.1600e-003**	**0.0140**	**0.0348**	**1.3000e-004**	**0.0108**	**1.0000e-004**	**0.0109**	**2.8900e-003**	**9.0000e-005**	**2.9800e-003**	**0.0000**	**11.5998**	**11.5998**	**4.2000e-004**	**0.0000**	**11.6101**

3.4 Grading - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3800e-003	0.0000	7.3800e-003	5.2200e-003	0.0000	5.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0205	0.2190	0.1604	3.1000e-004		9.8800e-003	9.8800e-003		9.0900e-003	9.0900e-003	0.0000	27.3575	27.3575	8.8500e-003	0.0000	27.5787
Total	**0.0205**	**0.2190**	**0.1604**	**3.1000e-004**	**7.3800e-003**	**9.8800e-003**	**0.0173**	**5.2200e-003**	**9.0900e-003**	**0.0143**	**0.0000**	**27.3575**	**27.3575**	**8.8500e-003**	**0.0000**	**27.5787**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	9.6300e-003	2.3800e-003	3.0000e-005	6.6000e-004	2.0000e-005	6.8000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.5410	2.5410	1.6000e-004	0.0000	2.5449
Worker	3.2900e-003	2.3400e-003	0.0270	9.0000e-005	9.2200e-003	7.0000e-005	9.2800e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	7.7397	7.7397	1.9000e-004	0.0000	7.7446
Total	**3.5700e-003**	**0.0120**	**0.0294**	**1.2000e-004**	**9.8800e-003**	**9.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.2807**	**10.2807**	**3.5000e-004**	**0.0000**	**10.2895**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7400e-003	0.0000	2.7400e-003	1.9300e-003	0.0000	1.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0205	0.2190	0.1604	3.1000e-004		9.8800e-003	9.8800e-003		9.0900e-003	9.0900e-003	0.0000	27.3575	27.3575	8.8500e-003	0.0000	27.5787
Total	**0.0205**	**0.2190**	**0.1604**	**3.1000e-004**	**2.7400e-003**	**9.8800e-003**	**0.0126**	**1.9300e-003**	**9.0900e-003**	**0.0110**	**0.0000**	**27.3575**	**27.3575**	**8.8500e-003**	**0.0000**	**27.5787**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	9.6300e-003	2.3800e-003	3.0000e-005	6.6000e-004	2.0000e-005	6.8000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.5410	2.5410	1.6000e-004	0.0000	2.5449
Worker	3.2900e-003	2.3400e-003	0.0270	9.0000e-005	9.2200e-003	7.0000e-005	9.2800e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	7.7397	7.7397	1.9000e-004	0.0000	7.7446
Total	**3.5700e-003**	**0.0120**	**0.0294**	**1.2000e-004**	**9.8800e-003**	**9.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.2807**	**10.2807**	**3.5000e-004**	**0.0000**	**10.2895**

3.5 Building Construction - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1664	1.5225	1.5954	2.6300e-003		0.0789	0.0789		0.0742	0.0742	0.0000	225.9321	225.9321	0.0541	0.0000	227.2853
Total	**0.1664**	**1.5225**	**1.5954**	**2.6300e-003**		**0.0789**	**0.0789**		**0.0742**	**0.0742**	**0.0000**	**225.9321**	**225.9321**	**0.0541**	**0.0000**	**227.2853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2684	0.0663	7.3000e-004	0.0184	4.9000e-004	0.0189	5.3200e-003	4.7000e-004	5.7900e-003	0.0000	70.7841	70.7841	4.3500e-003	0.0000	70.8928
Worker	0.0458	0.0326	0.3765	1.1900e-003	0.1284	9.4000e-004	0.1293	0.0341	8.6000e-004	0.0350	0.0000	107.8034	107.8034	2.7100e-003	0.0000	107.8712
Total	**0.0536**	**0.3009**	**0.4428**	**1.9200e-003**	**0.1468**	**1.4300e-003**	**0.1482**	**0.0394**	**1.3300e-003**	**0.0407**	**0.0000**	**178.5875**	**178.5875**	**7.0600e-003**	**0.0000**	**178.7639**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1664	1.5225	1.5954	2.6300e-003		0.0789	0.0789		0.0742	0.0742	0.0000	225.9318	225.9318	0.0541	0.0000	227.2850
Total	**0.1664**	**1.5225**	**1.5954**	**2.6300e-003**		**0.0789**	**0.0789**		**0.0742**	**0.0742**	**0.0000**	**225.9318**	**225.9318**	**0.0541**	**0.0000**	**227.2850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2684	0.0663	7.3000e-004	0.0184	4.9000e-004	0.0189	5.3200e-003	4.7000e-004	5.7900e-003	0.0000	70.7841	70.7841	4.3500e-003	0.0000	70.8928
Worker	0.0458	0.0326	0.3765	1.1900e-003	0.1284	9.4000e-004	0.1293	0.0341	8.6000e-004	0.0350	0.0000	107.8034	107.8034	2.7100e-003	0.0000	107.8712
Total	**0.0536**	**0.3009**	**0.4428**	**1.9200e-003**	**0.1468**	**1.4300e-003**	**0.1482**	**0.0394**	**1.3300e-003**	**0.0407**	**0.0000**	**178.5875**	**178.5875**	**7.0600e-003**	**0.0000**	**178.7639**

3.6 Paving - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2448	0.3208	5.0000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0243**	**0.2448**	**0.3208**	**5.0000e-004**		**0.0125**	**0.0125**		**0.0115**	**0.0115**	**0.0000**	**44.0606**	**44.0606**	**0.0143**	**0.0000**	**44.4169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-004	0.0202	4.9900e-003	5.0000e-005	1.3900e-003	4.0000e-005	1.4200e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.3239	5.3239	3.3000e-004	0.0000	5.3321
Worker	3.4400e-003	2.4500e-003	0.0283	9.0000e-005	9.6500e-003	7.0000e-005	9.7300e-003	2.5600e-003	6.0000e-005	2.6300e-003	0.0000	8.1083	8.1083	2.0000e-004	0.0000	8.1134
Total	**4.0300e-003**	**0.0226**	**0.0333**	**1.4000e-004**	**0.0110**	**1.1000e-004**	**0.0112**	**2.9600e-003**	**1.0000e-004**	**3.0700e-003**	**0.0000**	**13.4322**	**13.4322**	**5.3000e-004**	**0.0000**	**13.4455**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2448	0.3208	5.0000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0243**	**0.2448**	**0.3208**	**5.0000e-004**		**0.0125**	**0.0125**		**0.0115**	**0.0115**	**0.0000**	**44.0606**	**44.0606**	**0.0143**	**0.0000**	**44.4168**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-004	0.0202	4.9900e-003	5.0000e-005	1.3900e-003	4.0000e-005	1.4200e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.3239	5.3239	3.3000e-004	0.0000	5.3321
Worker	3.4400e-003	2.4500e-003	0.0283	9.0000e-005	9.6500e-003	7.0000e-005	9.7300e-003	2.5600e-003	6.0000e-005	2.6300e-003	0.0000	8.1083	8.1083	2.0000e-004	0.0000	8.1134
Total	**4.0300e-003**	**0.0226**	**0.0333**	**1.4000e-004**	**0.0110**	**1.1000e-004**	**0.0112**	**2.9600e-003**	**1.0000e-004**	**3.0700e-003**	**0.0000**	**13.4322**	**13.4322**	**5.3000e-004**	**0.0000**	**13.4455**

3.7 Architectural Coating - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-003	0.0310	0.0399	7.0000e-005		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	5.6172	5.6172	3.7000e-004	0.0000	5.6263
Total	**0.0114**	**0.0310**	**0.0399**	**7.0000e-005**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**5.6172**	**5.6172**	**3.7000e-004**	**0.0000**	**5.6263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1700e-003	0.0404	9.9800e-003	1.1000e-004	2.7700e-003	7.0000e-005	2.8500e-003	8.0000e-004	7.0000e-005	8.7000e-004	0.0000	10.6479	10.6479	6.5000e-004	0.0000	10.6642
Worker	6.8900e-003	4.9000e-003	0.0566	1.8000e-004	0.0193	1.4000e-004	0.0195	5.1300e-003	1.3000e-004	5.2600e-003	0.0000	16.2166	16.2166	4.1000e-004	0.0000	16.2268
Total	**8.0600e-003**	**0.0453**	**0.0666**	**2.9000e-004**	**0.0221**	**2.1000e-004**	**0.0223**	**5.9300e-003**	**2.0000e-004**	**6.1300e-003**	**0.0000**	**26.8645**	**26.8645**	**1.0600e-003**	**0.0000**	**26.8910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-003	0.0310	0.0399	7.0000e-005		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	5.6172	5.6172	3.7000e-004	0.0000	5.6263
Total	**0.0114**	**0.0310**	**0.0399**	**7.0000e-005**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**5.6172**	**5.6172**	**3.7000e-004**	**0.0000**	**5.6263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1700e-003	0.0404	9.9800e-003	1.1000e-004	2.7700e-003	7.0000e-005	2.8500e-003	8.0000e-004	7.0000e-005	8.7000e-004	0.0000	10.6479	10.6479	6.5000e-004	0.0000	10.6642
Worker	6.8900e-003	4.9000e-003	0.0566	1.8000e-004	0.0193	1.4000e-004	0.0195	5.1300e-003	1.3000e-004	5.2600e-003	0.0000	16.2166	16.2166	4.1000e-004	0.0000	16.2268
Total	**8.0600e-003**	**0.0453**	**0.0666**	**2.9000e-004**	**0.0221**	**2.1000e-004**	**0.0223**	**5.9300e-003**	**2.0000e-004**	**6.1300e-003**	**0.0000**	**26.8645**	**26.8645**	**1.0600e-003**	**0.0000**	**26.8910**

3.8 Demolition - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.4512	0.4125	8.2000e-004		0.0210	0.0210		0.0195	0.0195	0.0000	71.3833	71.3833	0.0200	0.0000	71.8831
Total	**0.0477**	**0.4512**	**0.4125**	**8.2000e-004**	**0.0207**	**0.0210**	**0.0417**	**3.1400e-003**	**0.0195**	**0.0226**	**0.0000**	**71.3833**	**71.3833**	**0.0200**	**0.0000**	**71.8831**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0155	4.9400e-003	7.0000e-005	1.7200e-003	3.0000e-005	1.7500e-003	4.7000e-004	3.0000e-005	5.0000e-004	0.0000	7.0861	7.0861	4.6000e-004	0.0000	7.0977
Vendor	1.6700e-003	0.0580	0.0170	2.0000e-004	5.2900e-003	7.0000e-005	5.3600e-003	1.5300e-003	6.0000e-005	1.5900e-003	0.0000	19.7150	19.7150	1.0900e-003	0.0000	19.7421
Worker	7.7400e-003	5.2900e-003	0.0623	2.1000e-004	0.0230	1.6000e-004	0.0232	6.1200e-003	1.5000e-004	6.2700e-003	0.0000	18.6277	18.6277	4.4000e-004	0.0000	18.6387
Total	**9.8700e-003**	**0.0787**	**0.0843**	**4.8000e-004**	**0.0301**	**2.6000e-004**	**0.0303**	**8.1200e-003**	**2.4000e-004**	**8.3600e-003**	**0.0000**	**45.4289**	**45.4289**	**1.9900e-003**	**0.0000**	**45.4785**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6900e-003	0.0000	7.6900e-003	1.1600e-003	0.0000	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.4512	0.4125	8.2000e-004		0.0210	0.0210		0.0195	0.0195	0.0000	71.3833	71.3833	0.0200	0.0000	71.8830
Total	**0.0477**	**0.4512**	**0.4125**	**8.2000e-004**	**7.6900e-003**	**0.0210**	**0.0286**	**1.1600e-003**	**0.0195**	**0.0207**	**0.0000**	**71.3833**	**71.3833**	**0.0200**	**0.0000**	**71.8830**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0155	4.9400e-003	7.0000e-005	1.7200e-003	3.0000e-005	1.7500e-003	4.7000e-004	3.0000e-005	5.0000e-004	0.0000	7.0861	7.0861	4.6000e-004	0.0000	7.0977
Vendor	1.6700e-003	0.0580	0.0170	2.0000e-004	5.2900e-003	7.0000e-005	5.3600e-003	1.5300e-003	6.0000e-005	1.5900e-003	0.0000	19.7150	19.7150	1.0900e-003	0.0000	19.7421
Worker	7.7400e-003	5.2900e-003	0.0623	2.1000e-004	0.0230	1.6000e-004	0.0232	6.1200e-003	1.5000e-004	6.2700e-003	0.0000	18.6277	18.6277	4.4000e-004	0.0000	18.6387
Total	**9.8700e-003**	**0.0787**	**0.0843**	**4.8000e-004**	**0.0301**	**2.6000e-004**	**0.0303**	**8.1200e-003**	**2.4000e-004**	**8.3600e-003**	**0.0000**	**45.4289**	**45.4289**	**1.9900e-003**	**0.0000**	**45.4785**

3.9 Site Preparation - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0225	0.0000	0.0225	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3028	0.2007	4.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	36.7958	36.7958	0.0119	0.0000	37.0933
Total	**0.0293**	**0.3028**	**0.2007**	**4.2000e-004**	**0.0225**	**0.0139**	**0.0364**	**0.0167**	**0.0128**	**0.0295**	**0.0000**	**36.7958**	**36.7958**	**0.0119**	**0.0000**	**37.0933**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0152	4.4600e-003	5.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	5.1635	5.1635	2.8000e-004	0.0000	5.1706
Worker	4.8600e-003	3.3200e-003	0.0392	1.3000e-004	0.0145	1.0000e-004	0.0146	3.8500e-003	9.0000e-005	3.9400e-003	0.0000	11.7089	11.7089	2.8000e-004	0.0000	11.7157
Total	**5.3000e-003**	**0.0185**	**0.0436**	**1.8000e-004**	**0.0159**	**1.2000e-004**	**0.0160**	**4.2500e-003**	**1.1000e-004**	**4.3600e-003**	**0.0000**	**16.8723**	**16.8723**	**5.6000e-004**	**0.0000**	**16.8863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.3300e-003	0.0000	8.3300e-003	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3028	0.2007	4.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	36.7957	36.7957	0.0119	0.0000	37.0932
Total	**0.0293**	**0.3028**	**0.2007**	**4.2000e-004**	**8.3300e-003**	**0.0139**	**0.0223**	**6.1700e-003**	**0.0128**	**0.0190**	**0.0000**	**36.7957**	**36.7957**	**0.0119**	**0.0000**	**37.0932**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0152	4.4600e-003	5.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	4.0000e-004	2.0000e-005	4.2000e-004	0.0000	5.1635	5.1635	2.8000e-004	0.0000	5.1706
Worker	4.8600e-003	3.3200e-003	0.0392	1.3000e-004	0.0145	1.0000e-004	0.0146	3.8500e-003	9.0000e-005	3.9400e-003	0.0000	11.7089	11.7089	2.8000e-004	0.0000	11.7157
Total	**5.3000e-003**	**0.0185**	**0.0436**	**1.8000e-004**	**0.0159**	**1.2000e-004**	**0.0160**	**4.2500e-003**	**1.1000e-004**	**4.3600e-003**	**0.0000**	**16.8723**	**16.8723**	**5.6000e-004**	**0.0000**	**16.8863**

3.10 Grading - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0445	0.0000	0.0445	0.0290	0.0000	0.0290	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.3767	0.3098	6.2000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	54.7273	54.7273	0.0177	0.0000	55.1698
Total	**0.0359**	**0.3767**	**0.3098**	**6.2000e-004**	**0.0445**	**0.0163**	**0.0607**	**0.0290**	**0.0150**	**0.0440**	**0.0000**	**54.7273**	**54.7273**	**0.0177**	**0.0000**	**55.1698**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9700e-003	0.1329	0.0425	6.2000e-004	0.0148	2.4000e-004	0.0150	4.0600e-003	2.3000e-004	4.2900e-003	0.0000	60.9408	60.9408	3.9600e-003	0.0000	61.0398
Vendor	8.4000e-004	0.0290	8.5100e-003	1.0000e-004	2.6500e-003	3.0000e-005	2.6800e-003	7.6000e-004	3.0000e-005	8.0000e-004	0.0000	9.8575	9.8575	5.4000e-004	0.0000	9.8711
Worker	0.0124	8.4600e-003	0.0997	3.3000e-004	0.0369	2.6000e-004	0.0371	9.7900e-003	2.4000e-004	0.0100	0.0000	29.8044	29.8044	7.0000e-004	0.0000	29.8219
Total	**0.0172**	**0.1704**	**0.1507**	**1.0500e-003**	**0.0543**	**5.3000e-004**	**0.0548**	**0.0146**	**5.0000e-004**	**0.0151**	**0.0000**	**100.6027**	**100.6027**	**5.2000e-003**	**0.0000**	**100.7327**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0165	0.0000	0.0165	0.0108	0.0000	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.3767	0.3098	6.2000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	54.7272	54.7272	0.0177	0.0000	55.1697
Total	**0.0359**	**0.3767**	**0.3098**	**6.2000e-004**	**0.0165**	**0.0163**	**0.0327**	**0.0108**	**0.0150**	**0.0257**	**0.0000**	**54.7272**	**54.7272**	**0.0177**	**0.0000**	**55.1697**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9700e-003	0.1329	0.0425	6.2000e-004	0.0148	2.4000e-004	0.0150	4.0600e-003	2.3000e-004	4.2900e-003	0.0000	60.9408	60.9408	3.9600e-003	0.0000	61.0398
Vendor	8.4000e-004	0.0290	8.5100e-003	1.0000e-004	2.6500e-003	3.0000e-005	2.6800e-003	7.6000e-004	3.0000e-005	8.0000e-004	0.0000	9.8575	9.8575	5.4000e-004	0.0000	9.8711
Worker	0.0124	8.4600e-003	0.0997	3.3000e-004	0.0369	2.6000e-004	0.0371	9.7900e-003	2.4000e-004	0.0100	0.0000	29.8044	29.8044	7.0000e-004	0.0000	29.8219
Total	**0.0172**	**0.1704**	**0.1507**	**1.0500e-003**	**0.0543**	**5.3000e-004**	**0.0548**	**0.0146**	**5.0000e-004**	**0.0151**	**0.0000**	**100.6027**	**100.6027**	**5.2000e-003**	**0.0000**	**100.7327**

3.11 Building Construction - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1195	1.0933	1.2345	2.0500e-003		0.0532	0.0532		0.0500	0.0500	0.0000	176.1716	176.1716	0.0419	0.0000	177.2193
Total	**0.1195**	**1.0933**	**1.2345**	**2.0500e-003**		**0.0532**	**0.0532**		**0.0500**	**0.0500**	**0.0000**	**176.1716**	**176.1716**	**0.0419**	**0.0000**	**177.2193**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0800e-003	0.3148	0.0924	1.1000e-003	0.0287	3.6000e-004	0.0291	8.2900e-003	3.4000e-004	8.6400e-003	0.0000	107.0244	107.0244	5.8900e-003	0.0000	107.1716
Worker	0.0840	0.0574	0.6764	2.2400e-003	0.2502	1.7700e-003	0.2519	0.0664	1.6300e-003	0.0681	0.0000	202.2438	202.2438	4.7600e-003	0.0000	202.3627
Total	**0.0931**	**0.3722**	**0.7689**	**3.3400e-003**	**0.2789**	**2.1300e-003**	**0.2810**	**0.0747**	**1.9700e-003**	**0.0767**	**0.0000**	**309.2681**	**309.2681**	**0.0107**	**0.0000**	**309.5343**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1195	1.0933	1.2345	2.0500e-003		0.0532	0.0532		0.0500	0.0500	0.0000	176.1714	176.1714	0.0419	0.0000	177.2191
Total	**0.1195**	**1.0933**	**1.2345**	**2.0500e-003**		**0.0532**	**0.0532**		**0.0500**	**0.0500**	**0.0000**	**176.1714**	**176.1714**	**0.0419**	**0.0000**	**177.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0800e-003	0.3148	0.0924	1.1000e-003	0.0287	3.6000e-004	0.0291	8.2900e-003	3.4000e-004	8.6400e-003	0.0000	107.0244	107.0244	5.8900e-003	0.0000	107.1716
Worker	0.0840	0.0574	0.6764	2.2400e-003	0.2502	1.7700e-003	0.2519	0.0664	1.6300e-003	0.0681	0.0000	202.2438	202.2438	4.7600e-003	0.0000	202.3627
Total	**0.0931**	**0.3722**	**0.7689**	**3.3400e-003**	**0.2789**	**2.1300e-003**	**0.2810**	**0.0747**	**1.9700e-003**	**0.0767**	**0.0000**	**309.2681**	**309.2681**	**0.0107**	**0.0000**	**309.5343**

3.11 Building Construction - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0809	0.7394	0.8892	1.4800e-003		0.0337	0.0337		0.0317	0.0317	0.0000	127.5170	127.5170	0.0302	0.0000	128.2709
Total	**0.0809**	**0.7394**	**0.8892**	**1.4800e-003**		**0.0337**	**0.0337**		**0.0317**	**0.0317**	**0.0000**	**127.5170**	**127.5170**	**0.0302**	**0.0000**	**128.2709**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4300e-003	0.2273	0.0650	7.9000e-004	0.0208	2.6000e-004	0.0211	6.0000e-003	2.4000e-004	6.2500e-003	0.0000	77.1782	77.1782	4.1900e-003	0.0000	77.2831
Worker	0.0576	0.0378	0.4566	1.5600e-003	0.1810	1.2700e-003	0.1823	0.0481	1.1700e-003	0.0492	0.0000	141.5441	141.5441	3.1500e-003	0.0000	141.6229
Total	**0.0641**	**0.2651**	**0.5216**	**2.3500e-003**	**0.2018**	**1.5300e-003**	**0.2034**	**0.0541**	**1.4100e-003**	**0.0555**	**0.0000**	**218.7223**	**218.7223**	**7.3400e-003**	**0.0000**	**218.9060**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0809	0.7394	0.8892	1.4800e-003		0.0337	0.0337		0.0317	0.0317	0.0000	127.5169	127.5169	0.0302	0.0000	128.2707
Total	**0.0809**	**0.7394**	**0.8892**	**1.4800e-003**		**0.0337**	**0.0337**		**0.0317**	**0.0317**	**0.0000**	**127.5169**	**127.5169**	**0.0302**	**0.0000**	**128.2707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4300e-003	0.2273	0.0650	7.9000e-004	0.0208	2.6000e-004	0.0211	6.0000e-003	2.4000e-004	6.2500e-003	0.0000	77.1782	77.1782	4.1900e-003	0.0000	77.2831
Worker	0.0576	0.0378	0.4566	1.5600e-003	0.1810	1.2700e-003	0.1823	0.0481	1.1700e-003	0.0492	0.0000	141.5441	141.5441	3.1500e-003	0.0000	141.6229
Total	**0.0641**	**0.2651**	**0.5216**	**2.3500e-003**	**0.2018**	**1.5300e-003**	**0.2034**	**0.0541**	**1.4100e-003**	**0.0555**	**0.0000**	**218.7223**	**218.7223**	**7.3400e-003**	**0.0000**	**218.9060**

3.12 Paving - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.2048	0.3145	4.9000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	43.0570	43.0570	0.0139	0.0000	43.4052
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.2048**	**0.3145**	**4.9000e-004**		**0.0101**	**0.0101**		**9.2700e-003**	**9.2700e-003**	**0.0000**	**43.0570**	**43.0570**	**0.0139**	**0.0000**	**43.4052**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0296	8.4600e-003	1.0000e-004	2.7100e-003	3.0000e-005	2.7400e-003	7.8000e-004	3.0000e-005	8.1000e-004	0.0000	10.0566	10.0566	5.5000e-004	0.0000	10.0702
Worker	6.0100e-003	3.9400e-003	0.0476	1.6000e-004	0.0189	1.3000e-004	0.0190	5.0100e-003	1.2000e-004	5.1300e-003	0.0000	14.7549	14.7549	3.3000e-004	0.0000	14.7631
Total	**6.8500e-003**	**0.0336**	**0.0561**	**2.6000e-004**	**0.0216**	**1.6000e-004**	**0.0217**	**5.7900e-003**	**1.5000e-004**	**5.9400e-003**	**0.0000**	**24.8115**	**24.8115**	**8.8000e-004**	**0.0000**	**24.8333**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.2048	0.3145	4.9000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	43.0570	43.0570	0.0139	0.0000	43.4051
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.2048**	**0.3145**	**4.9000e-004**		**0.0101**	**0.0101**		**9.2700e-003**	**9.2700e-003**	**0.0000**	**43.0570**	**43.0570**	**0.0139**	**0.0000**	**43.4051**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0296	8.4600e-003	1.0000e-004	2.7100e-003	3.0000e-005	2.7400e-003	7.8000e-004	3.0000e-005	8.1000e-004	0.0000	10.0566	10.0566	5.5000e-004	0.0000	10.0702
Worker	6.0100e-003	3.9400e-003	0.0476	1.6000e-004	0.0189	1.3000e-004	0.0190	5.0100e-003	1.2000e-004	5.1300e-003	0.0000	14.7549	14.7549	3.3000e-004	0.0000	14.7631
Total	**6.8500e-003**	**0.0336**	**0.0561**	**2.6000e-004**	**0.0216**	**1.6000e-004**	**0.0217**	**5.7900e-003**	**1.5000e-004**	**5.9400e-003**	**0.0000**	**24.8115**	**24.8115**	**8.8000e-004**	**0.0000**	**24.8333**

3.13 Architectural Coating - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0262	0.0389	6.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	5.4895	5.4895	3.1000e-004	0.0000	5.4972
Total	**1.0103**	**0.0262**	**0.0389**	**6.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**5.4895**	**5.4895**	**3.1000e-004**	**0.0000**	**5.4972**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0592	0.0169	2.1000e-004	5.4200e-003	7.0000e-005	5.4900e-003	1.5600e-003	6.0000e-005	1.6300e-003	0.0000	20.1131	20.1131	1.0900e-003	0.0000	20.1404
Worker	0.0180	0.0118	0.1428	4.9000e-004	0.0566	4.0000e-004	0.0570	0.0150	3.6000e-004	0.0154	0.0000	44.2647	44.2647	9.9000e-004	0.0000	44.2894
Total	**0.0197**	**0.0711**	**0.1597**	**7.0000e-004**	**0.0620**	**4.7000e-004**	**0.0625**	**0.0166**	**4.2000e-004**	**0.0170**	**0.0000**	**64.3778**	**64.3778**	**2.0800e-003**	**0.0000**	**64.4298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0262	0.0389	6.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	5.4895	5.4895	3.1000e-004	0.0000	5.4972
Total	**1.0103**	**0.0262**	**0.0389**	**6.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**5.4895**	**5.4895**	**3.1000e-004**	**0.0000**	**5.4972**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0592	0.0169	2.1000e-004	5.4200e-003	7.0000e-005	5.4900e-003	1.5600e-003	6.0000e-005	1.6300e-003	0.0000	20.1131	20.1131	1.0900e-003	0.0000	20.1404
Worker	0.0180	0.0118	0.1428	4.9000e-004	0.0566	4.0000e-004	0.0570	0.0150	3.6000e-004	0.0154	0.0000	44.2647	44.2647	9.9000e-004	0.0000	44.2894
Total	**0.0197**	**0.0711**	**0.1597**	**7.0000e-004**	**0.0620**	**4.7000e-004**	**0.0625**	**0.0166**	**4.2000e-004**	**0.0170**	**0.0000**	**64.3778**	**64.3778**	**2.0800e-003**	**0.0000**	**64.4298**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4723	2.3508	4.8704	0.0190	1.6499	0.0141	1.6640	0.4420	0.0131	0.4551	0.0000	1,764.8230	1,764.8230	0.0843	0.0000	1,766.9309
Unmitigated	0.5356	2.7050	6.4692	0.0267	2.4051	0.0194	2.4245	0.6444	0.0180	0.6624	0.0000	2,478.6409	2,478.6409	0.1112	0.0000	2,481.4205

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.08	1,304.48	1196.65	4,525,812	3,104,707
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	887.00	1,104.78	919.71	1,257,600	862,714
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	262.00	306.60	154.83	547,329	375,467
Total	2,506.08	2,715.86	2,271.19	6,330,741	4,342,888

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.40	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Enclosed Parking with Elevator	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
High Turnover (Sit Down Restaurant)	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Regional Shopping Center	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	743.4545	743.4545	0.0265	6.6200e-003	746.0880
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	743.4545	743.4545	0.0265	6.6200e-003	746.0880
NaturalGas Mitigated	0.0210	0.1825	0.0974	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	208.0535	208.0535	3.9900e-003	3.8100e-003	209.2898
NaturalGas Unmitigated	0.0210	0.1825	0.0974	1.1500e-003		0.0145	0.0145		0.0145	0.0145	0.0000	208.0535	208.0535	3.9900e-003	3.8100e-003	209.2898

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.92769e+006	0.0158	0.1349	0.0574	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.2325	156.2325	2.9900e-003	2.8600e-003	157.1609
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	956561	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0457	51.0457	9.8000e-004	9.4000e-004	51.3491
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	14527	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7752	0.7752	1.0000e-005	1.0000e-005	0.7798
Total		**0.0210**	**0.1825**	**0.0974**	**1.1400e-003**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**208.0535**	**208.0535**	**3.9800e-003**	**3.8100e-003**	**209.2898**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.92769e+006	0.0158	0.1349	0.0574	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.2325	156.2325	2.9900e-003	2.8600e-003	157.1609
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	956561	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0457	51.0457	9.8000e-004	9.4000e-004	51.3491
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	14527	8.0000e-005	7.1000e-004	6.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7752	0.7752	1.0000e-005	1.0000e-005	0.7798
Total		**0.0210**	**0.1825**	**0.0974**	**1.1400e-003**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**208.0535**	**208.0535**	**3.9800e-003**	**3.8100e-003**	**209.2898**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.04456e+006	266.1684	9.4800e-003	2.3700e-003	267.1113
Enclosed Parking with Elevator	1.66029e+006	423.0656	0.0151	3.7700e-003	424.5643
High Turnover (Sit Down Restaurant)	131535	33.5170	1.1900e-003	3.0000e-004	33.6358
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	81249	20.7034	7.4000e-004	1.8000e-004	20.7768
Total		**743.4545**	**0.0265**	**6.6200e-003**	**746.0881**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.04456e+006	266.1684	9.4800e-003	2.3700e-003	267.1113
Enclosed Parking with Elevator	1.66029e+006	423.0656	0.0151	3.7700e-003	424.5643
High Turnover (Sit Down Restaurant)	131535	33.5170	1.1900e-003	3.0000e-004	33.6358
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	81249	20.7034	7.4000e-004	1.8000e-004	20.7768
Total		**743.4545**	**0.0265**	**6.6200e-003**	**746.0881**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3810	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572
Unmitigated	1.3810	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1015					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1973					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0823	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572
Total	**1.3811**	**0.0313**	**2.7197**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.4499**	**4.4499**	**4.2900e-003**	**0.0000**	**4.5572**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1015					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1973					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0823	0.0313	2.7197	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.4499	4.4499	4.2900e-003	0.0000	4.5572
Total	**1.3811**	**0.0313**	**2.7197**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.4499**	**4.4499**	**4.2900e-003**	**0.0000**	**4.5572**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	80.6001	0.0210	0.0122	84.7729
Unmitigated	100.7501	0.0262	0.0153	105.9661

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.1355 / 10.8028	93.4999	0.0240	0.0140	98.2601
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.12307 / 0.0716856	4.3266	1.5100e-003	9.0000e-004	4.6322
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.540729 / 0.331415	2.9237	7.6000e-004	4.4000e-004	3.0738
Total		**100.7501**	**0.0263**	**0.0153**	**105.9661**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.7084 / 8.64226	74.7999	0.0192	0.0112	78.6081
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0.89846 / 0.0573485	3.4613	1.2100e-003	7.2000e-004	3.7058
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.432584 / 0.265132	2.3389	6.0000e-004	3.5000e-004	2.4590
Total		**80.6001**	**0.0210**	**0.0122**	**84.7729**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.5262	1.0358	0.0000	43.4205
Unmitigated	35.0525	2.0715	0.0000	86.8410

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	120.98	24.5579	1.4513	0.0000	60.8410
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	44.03	8.9377	0.5282	0.0000	22.1428
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.67	1.5569	0.0920	0.0000	3.8573
Total		**35.0525**	**2.0715**	**0.0000**	**86.8410**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	60.49	12.2789	0.7257	0.0000	30.4205
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	22.015	4.4689	0.2641	0.0000	11.0714
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.835	0.7785	0.0460	0.0000	1.9286
Total		**17.5262**	**1.0358**	**0.0000**	**43.4205**

CalEEMod Version: CalEEMod.2016.3.2

Date: 12/8/2020 12:07 PM

Pacific Coast Commons Specific Plan Project
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	763.00	Space	0.00	305,200.00	0
Other Asphalt Surfaces	12.65	1000sqft	0.00	12,650.00	0
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Apartments Mid Rise	263.00	Dwelling Unit	0.00	314,659.00	752
Regional Shopping Center	7.30	1000sqft	5.35	7,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	561.77	**CH4 Intensity (lb/MWhr)**	0.02	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PCC SP. SCAQMD. Adjusted to meet 36.5% RPS (SCE 2018 Sustainability Report).

Land Use - Updated land use assumptions per applicant.

Construction Phase - Updated construction schedule per applicant.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Trips and VMT - Updated per applicant.

Demolition - Phase 1: 41,660 SF of building demo, Phases 2 and 3: 1,938.785 tons of pavement demo.

Grading - 17,000 CY of soil export during Phase 2.

Architectural Coating - Use of low-VOC (50 g/L). Updated SF per phase.

Vehicle Trips - Adjusted trip gen rates per TIA (Fehr and Peers 2020).

Woodstoves - Assume no wood burning devices.

Area Coating - Use of low-VOC arch coating (50 g/L).

Energy Use - Assume compliance with 2019 Title 24 Standards.

Water And Wastewater - Assume 100% aerobic.

Construction Off-road Equipment Mitigation - Water three times daily and replace ground cover.

Mobile Land Use Mitigation - Increase transit accessibility (0.2 miles) and improve pedestrian network.

Water Mitigation - Reduce water consumption by 20% per CalGreen.

Waste Mitigation - Assume 50% waste disposed per AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	1,400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	4,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	4,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	12,300.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	180.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	1,779.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	212,213.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	636,338.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	19071	1959
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	8.71	7.78
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	78.56	77.77
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceDayYear	25.00	0.00

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	223.55	237.00
tblFireplaces	NumberNoFireplace	26.30	26.00
tblFireplaces	NumberWood	13.15	0.00
tblGrading	AcresOfGrading	21.50	0.74
tblGrading	AcresOfGrading	21.00	3.14
tblGrading	MaterialExported	0.00	17,000.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblLandUse	LandUseSquareFeet	263,000.00	314,659.00
tblLandUse	LotAcreage	6.87	0.00
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	0.17	5.35
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	561.77
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	HaulingTripNumber	189.00	200.00
tblTripsAndVMT	HaulingTripNumber	192.00	200.00
tblTripsAndVMT	HaulingTripNumber	2,125.00	1,720.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	82.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00

tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	82.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	300.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	65.00	240.00
tblTripsAndVMT	WorkerTripNumber	18.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	65.00	80.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	160.00
tblVehicleTrips	HS_TTP	19.20	19.40
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	4.96
tblVehicleTrips	ST_TR	158.37	298.59
tblVehicleTrips	ST_TR	49.97	42.00
tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	SU_TR	131.84	248.57
tblVehicleTrips	SU_TR	25.24	21.21
tblVehicleTrips	WD_TR	6.65	5.16
tblVehicleTrips	WD_TR	127.15	239.73
tblVehicleTrips	WD_TR	42.70	35.89
tblWater	AerobicPercent	87.46	100.00

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.1271	41.5877	25.5415	0.0601	3.1414	2.0505	4.7171	1.6799	1.8865	3.5664	0.0000	5,968.7822	5,968.7822	1.2234	0.0000	5,997.8919
2022	2.2915	21.9583	21.2160	0.0474	1.6418	0.9489	2.5907	0.7505	0.8731	1.6235	0.0000	4,645.7797	4,645.7797	0.9663	0.0000	4,663.0756
2023	3.1451	29.1616	27.0512	0.0808	4.7489	1.2769	5.5493	2.0888	1.1748	3.0806	0.0000	8,265.0400	8,265.0400	1.2494	0.0000	8,295.0501
2024	49.2194	18.1519	27.1750	0.0723	3.9608	0.6409	4.5194	1.0592	0.6025	1.6023	0.0000	7,235.9735	7,235.9735	0.8828	0.0000	7,258.0419
Maximum	**49.2194**	**41.5877**	**27.1750**	**0.0808**	**4.7489**	**2.0505**	**5.5493**	**2.0888**	**1.8865**	**3.5664**	**0.0000**	**8,265.0400**	**8,265.0400**	**1.2494**	**0.0000**	**8,295.0501**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.1271	41.5877	25.5415	0.0601	1.9121	2.0505	3.4814	0.7273	1.8865	2.6138	0.0000	5,968.7822	5,968.7822	1.2234	0.0000	5,997.8919
2022	2.2915	21.9583	21.2160	0.0474	1.5333	0.9489	2.3569	0.4389	0.8731	1.3120	0.0000	4,645.7797	4,645.7797	0.9663	0.0000	4,663.0756
2023	3.1451	29.1616	27.0512	0.0808	3.7373	1.2769	4.4650	1.2191	1.1748	2.1280	0.0000	8,265.0400	8,265.0400	1.2494	0.0000	8,295.0501
2024	49.2194	18.1519	27.1750	0.0723	3.9608	0.6409	4.5194	1.0592	0.6025	1.6023	0.0000	7,235.9735	7,235.9735	0.8828	0.0000	7,258.0419
Maximum	**49.2194**	**41.5877**	**27.1750**	**0.0808**	**3.9608**	**2.0505**	**4.5194**	**1.2191**	**1.8865**	**2.6138**	**0.0000**	**8,265.0400**	**8,265.0400**	**1.2494**	**0.0000**	**8,295.0501**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**17.41**	**0.00**	**14.70**	**38.25**	**0.00**	**22.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Energy	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
Mobile	3.4983	15.8191	40.1391	0.1645	14.4530	0.1148	14.5678	3.8663	0.1066	3.9729		16,805.4458	16,805.4458	0.7298		16,823.6902
Total	**11.8483**	**21.0009**	**64.1031**	**0.1971**	**14.4530**	**0.6328**	**15.0858**	**3.8663**	**0.6246**	**4.4909**	**0.0000**	**23,120.1667**	**23,120.1667**	**0.8879**	**0.1151**	**23,176.6497**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Energy	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
Mobile	3.1179	13.8852	29.8334	0.1172	9.9148	0.0834	9.9981	2.6523	0.0774	2.7297		11,980.0439	11,980.0439	0.5511		11,993.8223
Total	**11.4679**	**19.0670**	**53.7974**	**0.1497**	**9.9148**	**0.6014**	**10.5162**	**2.6523**	**0.5954**	**3.2477**	**0.0000**	**18,294.7648**	**18,294.7648**	**0.7093**	**0.1151**	**18,346.7817**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.21**	**9.21**	**16.08**	**24.04**	**31.40**	**4.97**	**30.29**	**31.40**	**4.68**	**27.68**	**0.00**	**20.87**	**20.87**	**20.12**	**0.00**	**20.84**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition - Phase 1	Demolition	10/1/2021	10/31/2021	5	21	
2	Site Preparation - Phase 1	Site Preparation	11/1/2021	11/30/2021	5	22	
3	Grading - Phase 1	Grading	12/1/2021	1/31/2022	5	44	
4	Building Construction - Phase 1	Building Construction	2/1/2022	10/31/2022	5	195	
5	Paving - Phase 1	Paving	11/1/2022	12/31/2022	5	44	
6	Architectural Coating - Phase 1	Architectural Coating	11/1/2022	12/31/2022	5	44	
7	Demolition - Phases 2 and 3	Demolition	1/1/2023	2/28/2023	5	42	
8	Site Preparation - Phases 2 and 3	Site Preparation	3/1/2023	3/30/2023	5	22	
9	Grading - Phases 2 and 3	Grading	4/1/2023	5/30/2023	5	42	
10	Building Construction - Phases 2 and 3	Building Construction	6/1/2023	5/31/2024	5	262	
11	Paving - Phases 2 and 3	Paving	6/1/2024	7/31/2024	5	43	
12	Architectural Coating - Phases 2 and 3	Architectural Coating	6/1/2024	7/31/2024	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition - Phase 1	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phase 1	Excavators	3	8.00	158	0.38
Demolition - Phase 1	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase 1	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phase 1	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	1	8.00	158	0.38
Grading - Phase 1	Graders	1	8.00	187	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase 1	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase 1	Cranes	1	7.00	231	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Paving - Phase 1	Pavers	2	8.00	130	0.42
Paving - Phase 1	Paving Equipment	2	8.00	132	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Demolition - Phases 2 and 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phases 2 and 3	Excavators	3	8.00	158	0.38
Demolition - Phases 2 and 3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phases 2 and 3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phases 2 and 3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phases 2 and 3	Excavators	1	8.00	158	0.38
Grading - Phases 2 and 3	Graders	1	8.00	187	0.41
Grading - Phases 2 and 3	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phases 2 and 3	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phases 2 and 3	Cranes	1	7.00	231	0.29

Building Construction - Phases 2 and 3	Forklifts	3	8.00	89	0.20
Building Construction - Phases 2 and 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phases 2 and 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phases 2 and 3	Welders	1	8.00	46	0.45
Paving - Phases 2 and 3	Pavers	2	8.00	130	0.42
Paving - Phases 2 and 3	Paving Equipment	2	8.00	132	0.36
Paving - Phases 2 and 3	Rollers	2	8.00	80	0.38
Architectural Coating - Phases 2 and 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition - Phase 1	6	80.00	20.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase 1	7	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	6	80.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	120.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	40.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition - Phases 2 and 3	6	100.00	40.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phases 2 and 3	7	120.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phases 2 and 3	6	160.00	20.00	1,720.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phases 2 and 3	9	300.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phases 2 and 3	6	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phases 2 and 3	1	240.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Demolition - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9528	0.0000	1.9528	0.2957	0.0000	0.2957			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**1.9528**	**1.5513**	**3.5041**	**0.2957**	**1.4411**	**1.7368**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0691	2.4094	0.5100	7.3000e-003	0.1664	7.4700e-003	0.1739	0.0456	7.1400e-003	0.0528		790.0377	790.0377	0.0527		791.3554
Vendor	0.0557	1.9075	0.4527	5.1000e-003	0.1280	3.8400e-003	0.1318	0.0369	3.6700e-003	0.0405		544.8769	544.8769	0.0330		545.7009
Worker	0.3377	0.2190	3.0138	8.8900e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		885.9227	885.9227	0.0238		886.5182
Total	**0.4625**	**4.5359**	**3.9765**	**0.0213**	**1.1886**	**0.0179**	**1.2065**	**0.3196**	**0.0169**	**0.3365**		**2,220.8373**	**2,220.8373**	**0.1095**		**2,223.5745**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7235	0.0000	0.7235	0.1095	0.0000	0.1095			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.7235**	**1.5513**	**2.2748**	**0.1095**	**1.4411**	**1.5506**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0691	2.4094	0.5100	7.3000e-003	0.1664	7.4700e-003	0.1739	0.0456	7.1400e-003	0.0528		790.0377	790.0377	0.0527		791.3554
Vendor	0.0557	1.9075	0.4527	5.1000e-003	0.1280	3.8400e-003	0.1318	0.0369	3.6700e-003	0.0405		544.8769	544.8769	0.0330		545.7009
Worker	0.3377	0.2190	3.0138	8.8900e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		885.9227	885.9227	0.0238		886.5182
Total	**0.4625**	**4.5359**	**3.9765**	**0.0213**	**1.1886**	**0.0179**	**1.2065**	**0.3196**	**0.0169**	**0.3365**		**2,220.8373**	**2,220.8373**	**0.1095**		**2,223.5745**

3.3 Site Preparation - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0437	0.0000	2.0437	1.5132	0.0000	1.5132			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**2.0437**	**2.0445**	**4.0882**	**1.5132**	**1.8809**	**3.3941**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0278	0.9538	0.2263	2.5500e-003	0.0640	1.9200e-003	0.0659	0.0184	1.8400e-003	0.0203		272.4385	272.4385	0.0165		272.8505
Worker	0.2111	0.1369	1.8836	5.5600e-003	0.5589	4.1100e-003	0.5630	0.1482	3.7900e-003	0.1520		553.7017	553.7017	0.0149		554.0739
Total	**0.2389**	**1.0906**	**2.1100**	**8.1100e-003**	**0.6229**	**6.0300e-003**	**0.6289**	**0.1667**	**5.6300e-003**	**0.1723**		**826.1401**	**826.1401**	**0.0314**		**826.9244**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7572	0.0000	0.7572	0.5607	0.0000	0.5607			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**0.7572**	**2.0445**	**2.8017**	**0.5607**	**1.8809**	**2.4416**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0278	0.9538	0.2263	2.5500e-003	0.0640	1.9200e-003	0.0659	0.0184	1.8400e-003	0.0203		272.4385	272.4385	0.0165		272.8505
Worker	0.2111	0.1369	1.8836	5.5600e-003	0.5589	4.1100e-003	0.5630	0.1482	3.7900e-003	0.1520		553.7017	553.7017	0.0149		554.0739
Total	**0.2389**	**1.0906**	**2.1100**	**8.1100e-003**	**0.6229**	**6.0300e-003**	**0.6289**	**0.1667**	**5.6300e-003**	**0.1723**		**826.1401**	**826.1401**	**0.0314**		**826.9244**

3.4 Grading - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6836	0.0000	0.6836	0.4949	0.0000	0.4949			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**0.6836**	**1.1599**	**1.8435**	**0.4949**	**1.0671**	**1.5620**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0278	0.9538	0.2263	2.5500e-003	0.0640	1.9200e-003	0.0659	0.0184	1.8400e-003	0.0203		272.4385	272.4385	0.0165		272.8505
Worker	0.3377	0.2190	3.0138	8.8900e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		885.9227	885.9227	0.0238		886.5182
Total	**0.3655**	**1.1728**	**3.2401**	**0.0114**	**0.9582**	**8.5000e-003**	**0.9667**	**0.2556**	**7.9000e-003**	**0.2635**		**1,158.3611**	**1,158.3611**	**0.0403**		**1,159.3687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2533	0.0000	0.2533	0.1834	0.0000	0.1834			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**0.2533**	**1.1599**	**1.4132**	**0.1834**	**1.0671**	**1.2505**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0278	0.9538	0.2263	2.5500e-003	0.0640	1.9200e-003	0.0659	0.0184	1.8400e-003	0.0203		272.4385	272.4385	0.0165		272.8505
Worker	0.3377	0.2190	3.0138	8.8900e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		885.9227	885.9227	0.0238		886.5182
Total	**0.3655**	**1.1728**	**3.2401**	**0.0114**	**0.9582**	**8.5000e-003**	**0.9667**	**0.2556**	**7.9000e-003**	**0.2635**		**1,158.3611**	**1,158.3611**	**0.0403**		**1,159.3687**

3.4 Grading - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6836	0.0000	0.6836	0.4949	0.0000	0.4949			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**0.6836**	**0.9409**	**1.6244**	**0.4949**	**0.8656**	**1.3605**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0261	0.9053	0.2139	2.5300e-003	0.0640	1.6600e-003	0.0657	0.0184	1.5900e-003	0.0200		270.0591	270.0591	0.0159		270.4558
Worker	0.3168	0.1978	2.7868	8.5700e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		854.1791	854.1791	0.0215		854.7174
Total	**0.3429**	**1.1032**	**3.0007**	**0.0111**	**0.9582**	**8.0500e-003**	**0.9663**	**0.2556**	**7.4800e-003**	**0.2631**		**1,124.2383**	**1,124.2383**	**0.0374**		**1,125.1732**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2533	0.0000	0.2533	0.1834	0.0000	0.1834			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**0.2533**	**0.9409**	**1.1941**	**0.1834**	**0.8656**	**1.0489**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0261	0.9053	0.2139	2.5300e-003	0.0640	1.6600e-003	0.0657	0.0184	1.5900e-003	0.0200		270.0591	270.0591	0.0159		270.4558
Worker	0.3168	0.1978	2.7868	8.5700e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		854.1791	854.1791	0.0215		854.7174
Total	**0.3429**	**1.1032**	**3.0007**	**0.0111**	**0.9582**	**8.0500e-003**	**0.9663**	**0.2556**	**7.4800e-003**	**0.2631**		**1,124.2383**	**1,124.2383**	**0.0374**		**1,125.1732**

3.5 Building Construction - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0783	2.7160	0.6417	7.5800e-003	0.1920	4.9900e-003	0.1970	0.0553	4.7700e-003	0.0601		810.1774	810.1774	0.0476		811.3673
Worker	0.4751	0.2968	4.1802	0.0129	1.3413	9.5900e-003	1.3509	0.3557	8.8300e-003	0.3646		1,281.2687	1,281.2687	0.0323		1,282.0761
Total	**0.5534**	**3.0128**	**4.8219**	**0.0204**	**1.5333**	**0.0146**	**1.5479**	**0.4110**	**0.0136**	**0.4246**		**2,091.4461**	**2,091.4461**	**0.0799**		**2,093.4434**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0783	2.7160	0.6417	7.5800e-003	0.1920	4.9900e-003	0.1970	0.0553	4.7700e-003	0.0601		810.1774	810.1774	0.0476		811.3673
Worker	0.4751	0.2968	4.1802	0.0129	1.3413	9.5900e-003	1.3509	0.3557	8.8300e-003	0.3646		1,281.2687	1,281.2687	0.0323		1,282.0761
Total	**0.5534**	**3.0128**	**4.8219**	**0.0204**	**1.5333**	**0.0146**	**1.5479**	**0.4110**	**0.0136**	**0.4246**		**2,091.4461**	**2,091.4461**	**0.0799**		**2,093.4434**

3.6 Paving - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0261	0.9053	0.2139	2.5300e-003	0.0640	1.6600e-003	0.0657	0.0184	1.5900e-003	0.0200		270.0591	270.0591	0.0159		270.4558
Worker	0.1584	0.0989	1.3934	4.2900e-003	0.4471	3.2000e-003	0.4503	0.1186	2.9400e-003	0.1215		427.0896	427.0896	0.0108		427.3587
Total	**0.1845**	**1.0043**	**1.6073**	**6.8200e-003**	**0.5111**	**4.8600e-003**	**0.5160**	**0.1370**	**4.5300e-003**	**0.1415**		**697.1487**	**697.1487**	**0.0266**		**697.8145**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0261	0.9053	0.2139	2.5300e-003	0.0640	1.6600e-003	0.0657	0.0184	1.5900e-003	0.0200		270.0591	270.0591	0.0159		270.4558
Worker	0.1584	0.0989	1.3934	4.2900e-003	0.4471	3.2000e-003	0.4503	0.1186	2.9400e-003	0.1215		427.0896	427.0896	0.0108		427.3587
Total	**0.1845**	**1.0043**	**1.6073**	**6.8200e-003**	**0.5111**	**4.8600e-003**	**0.5160**	**0.1370**	**4.5300e-003**	**0.1415**		**697.1487**	**697.1487**	**0.0266**		**697.8145**

3.7 Architectural Coating - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.3139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**0.5185**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0522	1.8107	0.4278	5.0600e-003	0.1280	3.3300e-003	0.1313	0.0369	3.1800e-003	0.0400		540.1183	540.1183	0.0317		540.9115
Worker	0.3168	0.1978	2.7868	8.5700e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		854.1791	854.1791	0.0215		854.7174
Total	**0.3690**	**2.0085**	**3.2146**	**0.0136**	**1.0222**	**9.7200e-003**	**1.0319**	**0.2740**	**9.0700e-003**	**0.2831**		**1,394.2974**	**1,394.2974**	**0.0533**		**1,395.6289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.3139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**0.5185**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0522	1.8107	0.4278	5.0600e-003	0.1280	3.3300e-003	0.1313	0.0369	3.1800e-003	0.0400		540.1183	540.1183	0.0317		540.9115
Worker	0.3168	0.1978	2.7868	8.5700e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		854.1791	854.1791	0.0215		854.7174
Total	**0.3690**	**2.0085**	**3.2146**	**0.0136**	**1.0222**	**9.7200e-003**	**1.0319**	**0.2740**	**9.0700e-003**	**0.2831**		**1,394.2974**	**1,394.2974**	**0.0533**		**1,395.6289**

3.8 Demolition - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9878	0.0000	0.9878	0.1496	0.0000	0.1496			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.9878**	**0.9975**	**1.9854**	**0.1496**	**0.9280**	**1.0776**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0217	0.7201	0.2297	3.4500e-003	0.0832	1.3400e-003	0.0845	0.0228	1.2800e-003	0.0241		374.8750	374.8750	0.0238		375.4704
Vendor	0.0779	2.7377	0.7709	9.7900e-003	0.2560	3.0800e-003	0.2591	0.0737	2.9400e-003	0.0766		1,047.4709	1,047.4709	0.0553		1,048.8543
Worker	0.3723	0.2238	3.2170	0.0103	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		1,027.9302	1,027.9302	0.0243		1,028.5370
Total	**0.4719**	**3.6816**	**4.2175**	**0.0236**	**1.4570**	**0.0122**	**1.4692**	**0.3929**	**0.0114**	**0.4043**		**2,450.2761**	**2,450.2761**	**0.1034**		**2,452.8617**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3660	0.0000	0.3660	0.0554	0.0000	0.0554			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.3660**	**0.9975**	**1.3635**	**0.0554**	**0.9280**	**0.9834**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0217	0.7201	0.2297	3.4500e-003	0.0832	1.3400e-003	0.0845	0.0228	1.2800e-003	0.0241		374.8750	374.8750	0.0238		375.4704
Vendor	0.0779	2.7377	0.7709	9.7900e-003	0.2560	3.0800e-003	0.2591	0.0737	2.9400e-003	0.0766		1,047.4709	1,047.4709	0.0553		1,048.8543
Worker	0.3723	0.2238	3.2170	0.0103	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		1,027.9302	1,027.9302	0.0243		1,028.5370
Total	**0.4719**	**3.6816**	**4.2175**	**0.0236**	**1.4570**	**0.0122**	**1.4692**	**0.3929**	**0.0114**	**0.4043**		**2,450.2761**	**2,450.2761**	**0.1034**		**2,452.8617**

3.9 Site Preparation - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0437	0.0000	2.0437	1.5132	0.0000	1.5132			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**2.0437**	**1.2660**	**3.3097**	**1.5132**	**1.1647**	**2.6780**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.4467	0.2685	3.8604	0.0124	1.3413	9.3400e-003	1.3507	0.3557	8.6000e-003	0.3643		1,233.5162	1,233.5162	0.0291		1,234.2444
Total	**0.4857**	**1.6374**	**4.2458**	**0.0173**	**1.4693**	**0.0109**	**1.4802**	**0.3926**	**0.0101**	**0.4026**		**1,757.2516**	**1,757.2516**	**0.0568**		**1,758.6716**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7572	0.0000	0.7572	0.5607	0.0000	0.5607			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**0.7572**	**1.2660**	**2.0232**	**0.5607**	**1.1647**	**1.7254**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.4467	0.2685	3.8604	0.0124	1.3413	9.3400e-003	1.3507	0.3557	8.6000e-003	0.3643		1,233.5162	1,233.5162	0.0291		1,234.2444
Total	**0.4857**	**1.6374**	**4.2458**	**0.0173**	**1.4693**	**0.0109**	**1.4802**	**0.3926**	**0.0101**	**0.4026**		**1,757.2516**	**1,757.2516**	**0.0568**		**1,758.6716**

3.10 Grading - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1169	0.0000	2.1169	1.3815	0.0000	1.3815			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**2.1169**	**0.7749**	**2.8918**	**1.3815**	**0.7129**	**2.0944**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1867	6.1930	1.9753	0.0297	0.7156	0.0115	0.7271	0.1961	0.0110	0.2071		3,223.9253	3,223.9253	0.2048		3,229.0456
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.5957	0.3580	5.1471	0.0165	1.7884	0.0125	1.8009	0.4743	0.0115	0.4858		1,644.6883	1,644.6883	0.0388		1,645.6592
Total	**0.8213**	**7.9199**	**7.5078**	**0.0511**	**2.6320**	**0.0255**	**2.6575**	**0.7073**	**0.0239**	**0.7312**		**5,392.3490**	**5,392.3490**	**0.2713**		**5,399.1320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7843	0.0000	0.7843	0.5119	0.0000	0.5119			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**0.7843**	**0.7749**	**1.5592**	**0.5119**	**0.7129**	**1.2248**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1867	6.1930	1.9753	0.0297	0.7156	0.0115	0.7271	0.1961	0.0110	0.2071		3,223.9253	3,223.9253	0.2048		3,229.0456
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.5957	0.3580	5.1471	0.0165	1.7884	0.0125	1.8009	0.4743	0.0115	0.4858		1,644.6883	1,644.6883	0.0388		1,645.6592
Total	**0.8213**	**7.9199**	**7.5078**	**0.0511**	**2.6320**	**0.0255**	**2.6575**	**0.7073**	**0.0239**	**0.7312**		**5,392.3490**	**5,392.3490**	**0.2713**		**5,399.1320**

3.11 Building Construction - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1168	4.1066	1.1563	0.0147	0.3840	4.6200e-003	0.3886	0.1106	4.4100e-003	0.1150		1,571.2063	1,571.2063	0.0830		1,573.2815
Worker	1.1169	0.6713	9.6509	0.0309	3.3533	0.0234	3.3767	0.8893	0.0215	0.9108		3,083.7905	3,083.7905	0.0728		3,085.6110
Total	**1.2337**	**4.7779**	**10.8072**	**0.0456**	**3.7373**	**0.0280**	**3.7653**	**0.9999**	**0.0259**	**1.0258**		**4,654.9968**	**4,654.9968**	**0.1558**		**4,658.8925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1168	4.1066	1.1563	0.0147	0.3840	4.6200e-003	0.3886	0.1106	4.4100e-003	0.1150		1,571.2063	1,571.2063	0.0830		1,573.2815
Worker	1.1169	0.6713	9.6509	0.0309	3.3533	0.0234	3.3767	0.8893	0.0215	0.9108		3,083.7905	3,083.7905	0.0728		3,085.6110
Total	**1.2337**	**4.7779**	**10.8072**	**0.0456**	**3.7373**	**0.0280**	**3.7653**	**0.9999**	**0.0259**	**1.0258**		**4,654.9968**	**4,654.9968**	**0.1558**		**4,658.8925**

3.11 Building Construction - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1144	4.0964	1.1230	0.0146	0.3840	4.5700e-003	0.3886	0.1106	4.3700e-003	0.1149		1,565.5097	1,565.5097	0.0817		1,567.5526
Worker	1.0570	0.6118	9.0151	0.0299	3.3533	0.0230	3.3763	0.8893	0.0212	0.9105		2,982.6268	2,982.6268	0.0668		2,984.2957
Total	**1.1714**	**4.7082**	**10.1382**	**0.0445**	**3.7373**	**0.0276**	**3.7649**	**0.9999**	**0.0256**	**1.0254**		**4,548.1365**	**4,548.1365**	**0.1485**		**4,551.8483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1144	4.0964	1.1230	0.0146	0.3840	4.5700e-003	0.3886	0.1106	4.3700e-003	0.1149		1,565.5097	1,565.5097	0.0817		1,567.5526
Worker	1.0570	0.6118	9.0151	0.0299	3.3533	0.0230	3.3763	0.8893	0.0212	0.9105		2,982.6268	2,982.6268	0.0668		2,984.2957
Total	**1.1714**	**4.7082**	**10.1382**	**0.0445**	**3.7373**	**0.0276**	**3.7649**	**0.9999**	**0.0256**	**1.0254**		**4,548.1365**	**4,548.1365**	**0.1485**		**4,551.8483**

3.12 Paving - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0381	1.3655	0.3743	4.8700e-003	0.1280	1.5200e-003	0.1295	0.0369	1.4600e-003	0.0383		521.8366	521.8366	0.0272		522.5175
Worker	0.2819	0.1631	2.4040	7.9800e-003	0.8942	6.1500e-003	0.9004	0.2372	5.6600e-003	0.2428		795.3672	795.3672	0.0178		795.8122
Total	**0.3200**	**1.5286**	**2.7784**	**0.0129**	**1.0222**	**7.6700e-003**	**1.0299**	**0.2740**	**7.1200e-003**	**0.2811**		**1,317.2037**	**1,317.2037**	**0.0450**		**1,318.3297**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0381	1.3655	0.3743	4.8700e-003	0.1280	1.5200e-003	0.1295	0.0369	1.4600e-003	0.0383		521.8366	521.8366	0.0272		522.5175
Worker	0.2819	0.1631	2.4040	7.9800e-003	0.8942	6.1500e-003	0.9004	0.2372	5.6600e-003	0.2428		795.3672	795.3672	0.0178		795.8122
Total	**0.3200**	**1.5286**	**2.7784**	**0.0129**	**1.0222**	**7.6700e-003**	**1.0299**	**0.2740**	**7.1200e-003**	**0.2811**		**1,317.2037**	**1,317.2037**	**0.0450**		**1,318.3297**

3.13 Architectural Coating - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.8086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**46.9894**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0762	2.7310	0.7487	9.7500e-003	0.2560	3.0500e-003	0.2591	0.0737	2.9100e-003	0.0766		1,043.6731	1,043.6731	0.0545		1,045.0350
Worker	0.8456	0.4894	7.2121	0.0239	2.6826	0.0184	2.7011	0.7115	0.0170	0.7284		2,386.1015	2,386.1015	0.0534		2,387.4366
Total	**0.9218**	**3.2204**	**7.9608**	**0.0337**	**2.9386**	**0.0215**	**2.9601**	**0.7852**	**0.0199**	**0.8050**		**3,429.7746**	**3,429.7746**	**0.1079**		**3,432.4716**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.8086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**46.9894**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0762	2.7310	0.7487	9.7500e-003	0.2560	3.0500e-003	0.2591	0.0737	2.9100e-003	0.0766		1,043.6731	1,043.6731	0.0545		1,045.0350
Worker	0.8456	0.4894	7.2121	0.0239	2.6826	0.0184	2.7011	0.7115	0.0170	0.7284		2,386.1015	2,386.1015	0.0534		2,387.4366
Total	**0.9218**	**3.2204**	**7.9608**	**0.0337**	**2.9386**	**0.0215**	**2.9601**	**0.7852**	**0.0199**	**0.8050**		**3,429.7746**	**3,429.7746**	**0.1079**		**3,432.4716**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1179	13.8852	29.8334	0.1172	9.9148	0.0834	9.9981	2.6523	0.0774	2.7297		11,980.0439	11,980.0439	0.5511		11,993.8223
Unmitigated	3.4983	15.8191	40.1391	0.1645	14.4530	0.1148	14.5678	3.8663	0.1066	3.9729		16,805.4458	16,805.4458	0.7298		16,823.6902

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.08	1,304.48	1196.65	4,525,812	3,104,707
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	887.00	1,104.78	919.71	1,257,600	862,714
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	262.00	306.60	154.83	547,329	375,467
Total	2,506.08	2,715.86	2,271.19	6,330,741	4,342,888

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.40	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Enclosed Parking with Elevator	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
High Turnover (Sit Down Restaurant)	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Regional Shopping Center	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
NaturalGas Unmitigated	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8021.06	0.0865	0.7392	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.6542	943.6542	0.0181	0.0173	949.2618
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2620.72	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	39.8	4.3000e-004	3.9000e-003	3.2800e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.6824	4.6824	9.0000e-005	9.0000e-005	4.7102
Total		**0.1152**	**1.0000**	**0.5337**	**6.2800e-003**		**0.0796**	**0.0796**		**0.0796**	**0.0796**		**1,256.6559**	**1,256.6559**	**0.0241**	**0.0230**	**1,264.1236**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8.02106	0.0865	0.7392	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.6542	943.6542	0.0181	0.0173	949.2618
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.62072	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0398	4.3000e-004	3.9000e-003	3.2800e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.6824	4.6824	9.0000e-005	9.0000e-005	4.7102
Total		**0.1152**	**1.0000**	**0.5337**	**6.2800e-003**		**0.0796**	**0.0796**		**0.0796**	**0.0796**		**1,256.6559**	**1,256.6559**	**0.0241**	**0.0230**	**1,264.1236**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Unmitigated	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4601	3.9314	1.6729	0.0251		0.3179	0.3179		0.3179	0.3179	0.0000	5,018.8235	5,018.8235	0.0962	0.0920	5,048.6479
Landscaping	0.6582	0.2504	21.7574	1.1500e-003		0.1206	0.1206		0.1206	0.1206		39.2414	39.2414	0.0379		40.1879
Total	**8.2348**	**4.1818**	**23.4303**	**0.0262**		**0.4384**	**0.4384**		**0.4384**	**0.4384**	**0.0000**	**5,058.0650**	**5,058.0650**	**0.1341**	**0.0920**	**5,088.8358**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4601	3.9314	1.6729	0.0251		0.3179	0.3179		0.3179	0.3179	0.0000	5,018.8235	5,018.8235	0.0962	0.0920	5,048.6479
Landscaping	0.6582	0.2504	21.7574	1.1500e-003		0.1206	0.1206		0.1206	0.1206		39.2414	39.2414	0.0379		40.1879
Total	**8.2348**	**4.1818**	**23.4303**	**0.0262**		**0.4384**	**0.4384**		**0.4384**	**0.4384**	**0.0000**	**5,058.0650**	**5,058.0650**	**0.1341**	**0.0920**	**5,088.8358**

CalEEMod Version: CalEEMod.2016.3.2

Date: 12/8/2020 12:09 PM

Pacific Coast Commons Specific Plan Project
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	763.00	Space	0.00	305,200.00	0
Other Asphalt Surfaces	12.65	1000sqft	0.00	12,650.00	0
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Apartments Mid Rise	263.00	Dwelling Unit	0.00	314,659.00	752
Regional Shopping Center	7.30	1000sqft	5.35	7,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	561.77	**CH4 Intensity (lb/MWhr)**	0.02	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PCC SP. SCAQMD. Adjusted to meet 36.5% RPS (SCE 2018 Sustainability Report).

Land Use - Updated land use assumptions per applicant.

Construction Phase - Updated construction schedule per applicant.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Trips and VMT - Updated per applicant.

Demolition - Phase 1: 41,660 SF of building demo, Phases 2 and 3: 1,938.785 tons of pavement demo.

Grading - 17,000 CY of soil export during Phase 2.

Architectural Coating - Use of low-VOC (50 g/L). Updated SF per phase.

Vehicle Trips - Adjusted trip gen rates per TIA (Fehr and Peers 2020).

Woodstoves - Assume no wood burning devices.

Area Coating - Use of low-VOC arch coating (50 g/L).

Energy Use - Assume compliance with 2019 Title 24 Standards.

Water And Wastewater - Assume 100% aerobic.

Construction Off-road Equipment Mitigation - Water three times daily and replace ground cover.

Mobile Land Use Mitigation - Increase transit accessibility (0.2 miles) and improve pedestrian network.

Water Mitigation - Reduce water consumption by 20% per CalGreen.

Waste Mitigation - Assume 50% waste disposed per AB 939.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	1,400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	4,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	4,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	12,300.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	180.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	1,779.00

tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	212,213.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	636,338.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	19071	1959
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	8.71	7.78
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	78.56	77.77
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceDayYear	25.00	0.00

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	223.55	237.00
tblFireplaces	NumberNoFireplace	26.30	26.00
tblFireplaces	NumberWood	13.15	0.00
tblGrading	AcresOfGrading	21.50	0.74
tblGrading	AcresOfGrading	21.00	3.14
tblGrading	MaterialExported	0.00	17,000.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialMoistureContentBulldozing	7.90	17.00
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblGrading	MaterialSiltContent	6.90	3.30
tblLandUse	LandUseSquareFeet	263,000.00	314,659.00
tblLandUse	LotAcreage	6.87	0.00
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	0.17	5.35
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	561.77
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	HaulingTripNumber	189.00	200.00
tblTripsAndVMT	HaulingTripNumber	192.00	200.00
tblTripsAndVMT	HaulingTripNumber	2,125.00	1,720.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	82.00	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00

tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	82.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
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tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	300.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	65.00	240.00
tblTripsAndVMT	WorkerTripNumber	18.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	80.00
tblTripsAndVMT	WorkerTripNumber	327.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	65.00	80.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	120.00
tblTripsAndVMT	WorkerTripNumber	15.00	160.00
tblVehicleTrips	HS_TTP	19.20	19.40
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	4.96
tblVehicleTrips	ST_TR	158.37	298.59
tblVehicleTrips	ST_TR	49.97	42.00
tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	SU_TR	131.84	248.57
tblVehicleTrips	SU_TR	25.24	21.21
tblVehicleTrips	WD_TR	6.65	5.16
tblVehicleTrips	WD_TR	127.15	239.73
tblVehicleTrips	WD_TR	42.70	35.89
tblWater	AerobicPercent	87.46	100.00

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.1481	41.5977	25.3274	0.0593	3.1414	2.0506	4.7171	1.6799	1.8866	3.5665	0.0000	5,881.0037	5,881.0037	1.2236	0.0000	5,910.1896
2022	2.3231	21.9734	20.8622	0.0463	1.6418	0.9490	2.5908	0.7505	0.8731	1.6236	0.0000	4,539.1601	4,539.1601	0.9660	0.0000	4,556.4878
2023	3.1913	29.1780	26.1545	0.0790	4.7489	1.2770	5.5496	2.0888	1.1749	3.0807	0.0000	8,083.6963	8,083.6963	1.2491	0.0000	8,113.8602
2024	49.3404	18.1841	26.2624	0.0698	3.9608	0.6411	4.5196	1.0592	0.6027	1.6025	0.0000	6,984.7665	6,984.7665	0.8830	0.0000	7,006.8408
Maximum	**49.3404**	**41.5977**	**26.2624**	**0.0790**	**4.7489**	**2.0506**	**5.5496**	**2.0888**	**1.8866**	**3.5665**	**0.0000**	**8,083.6963**	**8,083.6963**	**1.2491**	**0.0000**	**8,113.8602**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.1481	41.5977	25.3274	0.0593	1.9121	2.0506	3.4816	0.7273	1.8866	2.6139	0.0000	5,881.0037	5,881.0037	1.2236	0.0000	5,910.1896
2022	2.3231	21.9734	20.8622	0.0463	1.5333	0.9490	2.3571	0.4389	0.8731	1.3120	0.0000	4,539.1601	4,539.1601	0.9660	0.0000	4,556.4878
2023	3.1913	29.1780	26.1545	0.0790	3.7373	1.2770	4.4652	1.2191	1.1749	2.1281	0.0000	8,083.6962	8,083.6962	1.2491	0.0000	8,113.8602
2024	49.3404	18.1841	26.2624	0.0698	3.9608	0.6411	4.5196	1.0592	0.6027	1.6025	0.0000	6,984.7665	6,984.7665	0.8830	0.0000	7,006.8408
Maximum	**49.3404**	**41.5977**	**26.2624**	**0.0790**	**3.9608**	**2.0506**	**4.5196**	**1.2191**	**1.8866**	**2.6139**	**0.0000**	**8,083.6962**	**8,083.6962**	**1.2491**	**0.0000**	**8,113.8602**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**17.41**	**0.00**	**14.70**	**38.25**	**0.00**	**22.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Energy	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
Mobile	3.2990	15.9873	37.8987	0.1557	14.4530	0.1154	14.5684	3.8663	0.1072	3.9735		15,912.7436	15,912.7436	0.7353		15,931.1255
Total	**11.6490**	**21.1692**	**61.8627**	**0.1882**	**14.4530**	**0.6334**	**15.0864**	**3.8663**	**0.6252**	**4.4915**	**0.0000**	**22,227.4645**	**22,227.4645**	**0.8934**	**0.1151**	**22,284.0850**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Energy	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
Mobile	2.9288	13.9389	28.7378	0.1107	9.9148	0.0840	9.9987	2.6523	0.0780	2.7303		11,322.4470	11,322.4470	0.5615		11,336.4844
Total	**11.2788**	**19.1208**	**52.7017**	**0.1432**	**9.9148**	**0.6020**	**10.5168**	**2.6523**	**0.5960**	**3.2483**	**0.0000**	**17,637.1679**	**17,637.1679**	**0.7196**	**0.1151**	**17,689.4438**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.18**	**9.68**	**14.81**	**23.91**	**31.40**	**4.96**	**30.29**	**31.40**	**4.67**	**27.68**	**0.00**	**20.65**	**20.65**	**19.45**	**0.00**	**20.62**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition - Phase 1	Demolition	10/1/2021	10/31/2021	5	21	
2	Site Preparation - Phase 1	Site Preparation	11/1/2021	11/30/2021	5	22	
3	Grading - Phase 1	Grading	12/1/2021	1/31/2022	5	44	
4	Building Construction - Phase 1	Building Construction	2/1/2022	10/31/2022	5	195	
5	Paving - Phase 1	Paving	11/1/2022	12/31/2022	5	44	
6	Architectural Coating - Phase 1	Architectural Coating	11/1/2022	12/31/2022	5	44	
7	Demolition - Phases 2 and 3	Demolition	1/1/2023	2/28/2023	5	42	
8	Site Preparation - Phases 2 and 3	Site Preparation	3/1/2023	3/30/2023	5	22	
9	Grading - Phases 2 and 3	Grading	4/1/2023	5/30/2023	5	42	
10	Building Construction - Phases 2 and 3	Building Construction	6/1/2023	5/31/2024	5	262	
11	Paving - Phases 2 and 3	Paving	6/1/2024	7/31/2024	5	43	
12	Architectural Coating - Phases 2 and 3	Architectural Coating	6/1/2024	7/31/2024	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition - Phase 1	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phase 1	Excavators	3	8.00	158	0.38
Demolition - Phase 1	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase 1	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phase 1	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	1	8.00	158	0.38
Grading - Phase 1	Graders	1	8.00	187	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase 1	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase 1	Cranes	1	7.00	231	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Paving - Phase 1	Pavers	2	8.00	130	0.42
Paving - Phase 1	Paving Equipment	2	8.00	132	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Demolition - Phases 2 and 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phases 2 and 3	Excavators	3	8.00	158	0.38
Demolition - Phases 2 and 3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phases 2 and 3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phases 2 and 3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phases 2 and 3	Excavators	1	8.00	158	0.38
Grading - Phases 2 and 3	Graders	1	8.00	187	0.41
Grading - Phases 2 and 3	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phases 2 and 3	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phases 2 and 3	Cranes	1	7.00	231	0.29

Building Construction - Phases 2 and 3	Forklifts	3	8.00	89	0.20
Building Construction - Phases 2 and 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phases 2 and 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phases 2 and 3	Welders	1	8.00	46	0.45
Paving - Phases 2 and 3	Pavers	2	8.00	130	0.42
Paving - Phases 2 and 3	Paving Equipment	2	8.00	132	0.36
Paving - Phases 2 and 3	Rollers	2	8.00	80	0.38
Architectural Coating - Phases 2 and 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition - Phase 1	6	80.00	20.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase 1	7	50.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	6	80.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	120.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	40.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition - Phases 2 and 3	6	100.00	40.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phases 2 and 3	7	120.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phases 2 and 3	6	160.00	20.00	1,720.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phases 2 and 3	9	300.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phases 2 and 3	6	80.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phases 2 and 3	1	240.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Demolition - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9528	0.0000	1.9528	0.2957	0.0000	0.2957			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**1.9528**	**1.5513**	**3.5041**	**0.2957**	**1.4411**	**1.7368**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0711	2.4381	0.5475	7.1600e-003	0.1664	7.5800e-003	0.1740	0.0456	7.2500e-003	0.0529		775.4241	775.4241	0.0549		776.7974
Vendor	0.0586	1.9015	0.5065	4.9600e-003	0.1280	3.9600e-003	0.1320	0.0369	3.7900e-003	0.0406		529.1004	529.1004	0.0354		529.9854
Worker	0.3690	0.2398	2.7083	8.3100e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		828.5343	828.5343	0.0222		829.0894
Total	**0.4986**	**4.5793**	**3.7624**	**0.0204**	**1.1886**	**0.0181**	**1.2068**	**0.3196**	**0.0171**	**0.3367**		**2,133.0588**	**2,133.0588**	**0.1125**		**2,135.8723**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7235	0.0000	0.7235	0.1095	0.0000	0.1095			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.7235**	**1.5513**	**2.2748**	**0.1095**	**1.4411**	**1.5506**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0711	2.4381	0.5475	7.1600e-003	0.1664	7.5800e-003	0.1740	0.0456	7.2500e-003	0.0529		775.4241	775.4241	0.0549		776.7974
Vendor	0.0586	1.9015	0.5065	4.9600e-003	0.1280	3.9600e-003	0.1320	0.0369	3.7900e-003	0.0406		529.1004	529.1004	0.0354		529.9854
Worker	0.3690	0.2398	2.7083	8.3100e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		828.5343	828.5343	0.0222		829.0894
Total	**0.4986**	**4.5793**	**3.7624**	**0.0204**	**1.1886**	**0.0181**	**1.2068**	**0.3196**	**0.0171**	**0.3367**		**2,133.0588**	**2,133.0588**	**0.1125**		**2,135.8723**

3.3 Site Preparation - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0437	0.0000	2.0437	1.5132	0.0000	1.5132			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**2.0437**	**2.0445**	**4.0882**	**1.5132**	**1.8809**	**3.3941**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0293	0.9507	0.2533	2.4800e-003	0.0640	1.9800e-003	0.0660	0.0184	1.9000e-003	0.0203		264.5502	264.5502	0.0177		264.9927
Worker	0.2306	0.1498	1.6927	5.2000e-003	0.5589	4.1100e-003	0.5630	0.1482	3.7900e-003	0.1520		517.8339	517.8339	0.0139		518.1809
Total	**0.2599**	**1.1006**	**1.9460**	**7.6800e-003**	**0.6229**	**6.0900e-003**	**0.6290**	**0.1667**	**5.6900e-003**	**0.1723**		**782.3841**	**782.3841**	**0.0316**		**783.1736**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7572	0.0000	0.7572	0.5607	0.0000	0.5607			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**0.7572**	**2.0445**	**2.8017**	**0.5607**	**1.8809**	**2.4416**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0293	0.9507	0.2533	2.4800e-003	0.0640	1.9800e-003	0.0660	0.0184	1.9000e-003	0.0203		264.5502	264.5502	0.0177		264.9927
Worker	0.2306	0.1498	1.6927	5.2000e-003	0.5589	4.1100e-003	0.5630	0.1482	3.7900e-003	0.1520		517.8339	517.8339	0.0139		518.1809
Total	**0.2599**	**1.1006**	**1.9460**	**7.6800e-003**	**0.6229**	**6.0900e-003**	**0.6290**	**0.1667**	**5.6900e-003**	**0.1723**		**782.3841**	**782.3841**	**0.0316**		**783.1736**

3.4 Grading - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6836	0.0000	0.6836	0.4949	0.0000	0.4949			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**0.6836**	**1.1599**	**1.8435**	**0.4949**	**1.0671**	**1.5620**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0293	0.9507	0.2533	2.4800e-003	0.0640	1.9800e-003	0.0660	0.0184	1.9000e-003	0.0203		264.5502	264.5502	0.0177		264.9927
Worker	0.3690	0.2398	2.7083	8.3100e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		828.5343	828.5343	0.0222		829.0894
Total	**0.3982**	**1.1905**	**2.9616**	**0.0108**	**0.9582**	**8.5600e-003**	**0.9668**	**0.2556**	**7.9600e-003**	**0.2635**		**1,093.0845**	**1,093.0845**	**0.0399**		**1,094.0821**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2533	0.0000	0.2533	0.1834	0.0000	0.1834			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**0.2533**	**1.1599**	**1.4132**	**0.1834**	**1.0671**	**1.2505**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0293	0.9507	0.2533	2.4800e-003	0.0640	1.9800e-003	0.0660	0.0184	1.9000e-003	0.0203		264.5502	264.5502	0.0177		264.9927
Worker	0.3690	0.2398	2.7083	8.3100e-003	0.8942	6.5800e-003	0.9008	0.2372	6.0600e-003	0.2432		828.5343	828.5343	0.0222		829.0894
Total	**0.3982**	**1.1905**	**2.9616**	**0.0108**	**0.9582**	**8.5600e-003**	**0.9668**	**0.2556**	**7.9600e-003**	**0.2635**		**1,093.0845**	**1,093.0845**	**0.0399**		**1,094.0821**

3.4 Grading - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6836	0.0000	0.6836	0.4949	0.0000	0.4949			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**0.6836**	**0.9409**	**1.6244**	**0.4949**	**0.8656**	**1.3605**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.3470	0.2165	2.4998	8.0100e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		798.8292	798.8292	0.0201		799.3305
Total	**0.3745**	**1.1182**	**2.7393**	**0.0105**	**0.9582**	**8.1100e-003**	**0.9663**	**0.2556**	**7.5300e-003**	**0.2631**		**1,061.0234**	**1,061.0234**	**0.0371**		**1,061.9504**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2533	0.0000	0.2533	0.1834	0.0000	0.1834			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**0.2533**	**0.9409**	**1.1941**	**0.1834**	**0.8656**	**1.0489**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.3470	0.2165	2.4998	8.0100e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		798.8292	798.8292	0.0201		799.3305
Total	**0.3745**	**1.1182**	**2.7393**	**0.0105**	**0.9582**	**8.1100e-003**	**0.9663**	**0.2556**	**7.5300e-003**	**0.2631**		**1,061.0234**	**1,061.0234**	**0.0371**		**1,061.9504**

3.5 Building Construction - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0824	2.7052	0.7185	7.3600e-003	0.1920	5.1600e-003	0.1972	0.0553	4.9300e-003	0.0602		786.5827	786.5827	0.0511		787.8598
Worker	0.5205	0.3248	3.7497	0.0120	1.3413	9.5900e-003	1.3509	0.3557	8.8300e-003	0.3646		1,198.2438	1,198.2438	0.0301		1,198.9958
Total	**0.6029**	**3.0299**	**4.4682**	**0.0194**	**1.5333**	**0.0148**	**1.5481**	**0.4110**	**0.0138**	**0.4248**		**1,984.8265**	**1,984.8265**	**0.0812**		**1,986.8556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0824	2.7052	0.7185	7.3600e-003	0.1920	5.1600e-003	0.1972	0.0553	4.9300e-003	0.0602		786.5827	786.5827	0.0511		787.8598
Worker	0.5205	0.3248	3.7497	0.0120	1.3413	9.5900e-003	1.3509	0.3557	8.8300e-003	0.3646		1,198.2438	1,198.2438	0.0301		1,198.9958
Total	**0.6029**	**3.0299**	**4.4682**	**0.0194**	**1.5333**	**0.0148**	**1.5481**	**0.4110**	**0.0138**	**0.4248**		**1,984.8265**	**1,984.8265**	**0.0812**		**1,986.8556**

3.6 Paving - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.1735	0.1083	1.2499	4.0100e-003	0.4471	3.2000e-003	0.4503	0.1186	2.9400e-003	0.1215		399.4146	399.4146	0.0100		399.6653
Total	**0.2010**	**1.0100**	**1.4894**	**6.4600e-003**	**0.5111**	**4.9200e-003**	**0.5160**	**0.1370**	**4.5800e-003**	**0.1416**		**661.6088**	**661.6088**	**0.0271**		**662.2852**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0275	0.9017	0.2395	2.4500e-003	0.0640	1.7200e-003	0.0657	0.0184	1.6400e-003	0.0201		262.1942	262.1942	0.0170		262.6199
Worker	0.1735	0.1083	1.2499	4.0100e-003	0.4471	3.2000e-003	0.4503	0.1186	2.9400e-003	0.1215		399.4146	399.4146	0.0100		399.6653
Total	**0.2010**	**1.0100**	**1.4894**	**6.4600e-003**	**0.5111**	**4.9200e-003**	**0.5160**	**0.1370**	**4.5800e-003**	**0.1416**		**661.6088**	**661.6088**	**0.0271**		**662.2852**

3.7 Architectural Coating - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.3139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**0.5185**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0550	1.8034	0.4790	4.9100e-003	0.1280	3.4400e-003	0.1314	0.0369	3.2900e-003	0.0401		524.3885	524.3885	0.0341		525.2399
Worker	0.3470	0.2165	2.4998	8.0100e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		798.8292	798.8292	0.0201		799.3305
Total	**0.4019**	**2.0199**	**2.9788**	**0.0129**	**1.0222**	**9.8300e-003**	**1.0321**	**0.2740**	**9.1800e-003**	**0.2832**		**1,323.2177**	**1,323.2177**	**0.0541**		**1,324.5704**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.3139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**0.5185**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0550	1.8034	0.4790	4.9100e-003	0.1280	3.4400e-003	0.1314	0.0369	3.2900e-003	0.0401		524.3885	524.3885	0.0341		525.2399
Worker	0.3470	0.2165	2.4998	8.0100e-003	0.8942	6.3900e-003	0.9006	0.2372	5.8900e-003	0.2430		798.8292	798.8292	0.0201		799.3305
Total	**0.4019**	**2.0199**	**2.9788**	**0.0129**	**1.0222**	**9.8300e-003**	**1.0321**	**0.2740**	**9.1800e-003**	**0.2832**		**1,323.2177**	**1,323.2177**	**0.0541**		**1,324.5704**

3.8 Demolition - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9878	0.0000	0.9878	0.1496	0.0000	0.1496			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.9878**	**0.9975**	**1.9854**	**0.1496**	**0.9280**	**1.0776**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0223	0.7235	0.2417	3.3900e-003	0.0832	1.3700e-003	0.0846	0.0228	1.3100e-003	0.0241		367.9311	367.9311	0.0246		368.5470
Vendor	0.0820	2.7202	0.8471	9.5100e-003	0.2560	3.2300e-003	0.2592	0.0737	3.0900e-003	0.0768		1,017.4466	1,017.4466	0.0590		1,018.9209
Worker	0.4091	0.2448	2.8799	9.6400e-003	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		961.2964	961.2964	0.0226		961.8610
Total	**0.5134**	**3.6885**	**3.9687**	**0.0225**	**1.4570**	**0.0124**	**1.4694**	**0.3929**	**0.0116**	**0.4045**		**2,346.6742**	**2,346.6742**	**0.1062**		**2,349.3289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3660	0.0000	0.3660	0.0554	0.0000	0.0554			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.3660**	**0.9975**	**1.3635**	**0.0554**	**0.9280**	**0.9834**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0223	0.7235	0.2417	3.3900e-003	0.0832	1.3700e-003	0.0846	0.0228	1.3100e-003	0.0241		367.9311	367.9311	0.0246		368.5470
Vendor	0.0820	2.7202	0.8471	9.5100e-003	0.2560	3.2300e-003	0.2592	0.0737	3.0900e-003	0.0768		1,017.4466	1,017.4466	0.0590		1,018.9209
Worker	0.4091	0.2448	2.8799	9.6400e-003	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		961.2964	961.2964	0.0226		961.8610
Total	**0.5134**	**3.6885**	**3.9687**	**0.0225**	**1.4570**	**0.0124**	**1.4694**	**0.3929**	**0.0116**	**0.4045**		**2,346.6742**	**2,346.6742**	**0.1062**		**2,349.3289**

3.9 Site Preparation - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0437	0.0000	2.0437	1.5132	0.0000	1.5132			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**2.0437**	**1.2660**	**3.3097**	**1.5132**	**1.1647**	**2.6780**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.4909	0.2938	3.4559	0.0116	1.3413	9.3400e-003	1.3507	0.3557	8.6000e-003	0.3643		1,153.5557	1,153.5557	0.0271		1,154.2332
Total	**0.5319**	**1.6538**	**3.8795**	**0.0163**	**1.4693**	**0.0110**	**1.4803**	**0.3926**	**0.0101**	**0.4027**		**1,662.2790**	**1,662.2790**	**0.0566**		**1,663.6936**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7572	0.0000	0.7572	0.5607	0.0000	0.5607			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**0.7572**	**1.2660**	**2.0232**	**0.5607**	**1.1647**	**1.7254**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.4909	0.2938	3.4559	0.0116	1.3413	9.3400e-003	1.3507	0.3557	8.6000e-003	0.3643		1,153.5557	1,153.5557	0.0271		1,154.2332
Total	**0.5319**	**1.6538**	**3.8795**	**0.0163**	**1.4693**	**0.0110**	**1.4803**	**0.3926**	**0.0101**	**0.4027**		**1,662.2790**	**1,662.2790**	**0.0566**		**1,663.6936**

3.10 Grading - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1169	0.0000	2.1169	1.3815	0.0000	1.3815			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**2.1169**	**0.7749**	**2.8918**	**1.3815**	**0.7129**	**2.0944**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1922	6.2221	2.0784	0.0291	0.7156	0.0118	0.7274	0.1961	0.0113	0.2074		3,164.2077	3,164.2077	0.2119		3,169.5040
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.6545	0.3917	4.6079	0.0154	1.7884	0.0125	1.8009	0.4743	0.0115	0.4858		1,538.0743	1,538.0743	0.0361		1,538.9776
Total	**0.8877**	**7.9738**	**7.1098**	**0.0493**	**2.6320**	**0.0259**	**2.6579**	**0.7073**	**0.0243**	**0.7315**		**5,211.0053**	**5,211.0053**	**0.2775**		**5,217.9421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7843	0.0000	0.7843	0.5119	0.0000	0.5119			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**0.7843**	**0.7749**	**1.5592**	**0.5119**	**0.7129**	**1.2248**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1922	6.2221	2.0784	0.0291	0.7156	0.0118	0.7274	0.1961	0.0113	0.2074		3,164.2077	3,164.2077	0.2119		3,169.5040
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.6545	0.3917	4.6079	0.0154	1.7884	0.0125	1.8009	0.4743	0.0115	0.4858		1,538.0743	1,538.0743	0.0361		1,538.9776
Total	**0.8877**	**7.9738**	**7.1098**	**0.0493**	**2.6320**	**0.0259**	**2.6579**	**0.7073**	**0.0243**	**0.7315**		**5,211.0053**	**5,211.0053**	**0.2775**		**5,217.9421**

3.11 Building Construction - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1231	4.0803	1.2706	0.0143	0.3840	4.8400e-003	0.3889	0.1106	4.6300e-003	0.1152		1,526.1699	1,526.1699	0.0885		1,528.3813
Worker	1.2272	0.7344	8.6398	0.0289	3.3533	0.0234	3.3767	0.8893	0.0215	0.9108		2,883.8893	2,883.8893	0.0678		2,885.5830
Total	**1.3502**	**4.8146**	**9.9105**	**0.0432**	**3.7373**	**0.0282**	**3.7655**	**0.9999**	**0.0261**	**1.0260**		**4,410.0592**	**4,410.0592**	**0.1562**		**4,413.9643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1231	4.0803	1.2706	0.0143	0.3840	4.8400e-003	0.3889	0.1106	4.6300e-003	0.1152		1,526.1699	1,526.1699	0.0885		1,528.3813
Worker	1.2272	0.7344	8.6398	0.0289	3.3533	0.0234	3.3767	0.8893	0.0215	0.9108		2,883.8893	2,883.8893	0.0678		2,885.5830
Total	**1.3502**	**4.8146**	**9.9105**	**0.0432**	**3.7373**	**0.0282**	**3.7655**	**0.9999**	**0.0261**	**1.0260**		**4,410.0592**	**4,410.0592**	**0.1562**		**4,413.9643**

3.11 Building Construction - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1204	4.0714	1.2342	0.0142	0.3840	4.7700e-003	0.3888	0.1106	4.5600e-003	0.1151		1,520.9792	1,520.9792	0.0870		1,523.1541
Worker	1.1649	0.6690	8.0553	0.0280	3.3533	0.0230	3.3763	0.8893	0.0212	0.9105		2,788.8676	2,788.8676	0.0620		2,790.4183
Total	**1.2853**	**4.7403**	**9.2895**	**0.0422**	**3.7373**	**0.0278**	**3.7651**	**0.9999**	**0.0258**	**1.0256**		**4,309.8468**	**4,309.8468**	**0.1490**		**4,313.5724**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1204	4.0714	1.2342	0.0142	0.3840	4.7700e-003	0.3888	0.1106	4.5600e-003	0.1151		1,520.9792	1,520.9792	0.0870		1,523.1541
Worker	1.1649	0.6690	8.0553	0.0280	3.3533	0.0230	3.3763	0.8893	0.0212	0.9105		2,788.8676	2,788.8676	0.0620		2,790.4183
Total	**1.2853**	**4.7403**	**9.2895**	**0.0422**	**3.7373**	**0.0278**	**3.7651**	**0.9999**	**0.0258**	**1.0256**		**4,309.8468**	**4,309.8468**	**0.1490**		**4,313.5724**

3.12 Paving - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.3571	0.4114	4.7400e-003	0.1280	1.5900e-003	0.1296	0.0369	1.5200e-003	0.0384		506.9931	506.9931	0.0290		507.7180
Worker	0.3106	0.1784	2.1481	7.4600e-003	0.8942	6.1500e-003	0.9004	0.2372	5.6600e-003	0.2428		743.6980	743.6980	0.0165		744.1115
Total	**0.3508**	**1.5355**	**2.5595**	**0.0122**	**1.0222**	**7.7400e-003**	**1.0300**	**0.2740**	**7.1800e-003**	**0.2812**		**1,250.6911**	**1,250.6911**	**0.0455**		**1,251.8296**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.3571	0.4114	4.7400e-003	0.1280	1.5900e-003	0.1296	0.0369	1.5200e-003	0.0384		506.9931	506.9931	0.0290		507.7180
Worker	0.3106	0.1784	2.1481	7.4600e-003	0.8942	6.1500e-003	0.9004	0.2372	5.6600e-003	0.2428		743.6980	743.6980	0.0165		744.1115
Total	**0.3508**	**1.5355**	**2.5595**	**0.0122**	**1.0222**	**7.7400e-003**	**1.0300**	**0.2740**	**7.1800e-003**	**0.2812**		**1,250.6911**	**1,250.6911**	**0.0455**		**1,251.8296**

3.13 Architectural Coating - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.8086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**46.9894**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0803	2.7142	0.8228	9.4800e-003	0.2560	3.1800e-003	0.2592	0.0737	3.0400e-003	0.0767		1,013.9861	1,013.9861	0.0580		1,015.4361
Worker	0.9319	0.5352	6.4443	0.0224	2.6826	0.0184	2.7011	0.7115	0.0170	0.7284		2,231.0941	2,231.0941	0.0496		2,232.3346
Total	**1.0122**	**3.2494**	**7.2671**	**0.0319**	**2.9386**	**0.0216**	**2.9603**	**0.7852**	**0.0200**	**0.8052**		**3,245.0802**	**3,245.0802**	**0.1076**		**3,247.7707**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.8086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**46.9894**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0803	2.7142	0.8228	9.4800e-003	0.2560	3.1800e-003	0.2592	0.0737	3.0400e-003	0.0767		1,013.9861	1,013.9861	0.0580		1,015.4361
Worker	0.9319	0.5352	6.4443	0.0224	2.6826	0.0184	2.7011	0.7115	0.0170	0.7284		2,231.0941	2,231.0941	0.0496		2,232.3346
Total	**1.0122**	**3.2494**	**7.2671**	**0.0319**	**2.9386**	**0.0216**	**2.9603**	**0.7852**	**0.0200**	**0.8052**		**3,245.0802**	**3,245.0802**	**0.1076**		**3,247.7707**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9288	13.9389	28.7378	0.1107	9.9148	0.0840	9.9987	2.6523	0.0780	2.7303		11,322.4470	11,322.4470	0.5615		11,336.4844
Unmitigated	3.2990	15.9873	37.8987	0.1557	14.4530	0.1154	14.5684	3.8663	0.1072	3.9735		15,912.7436	15,912.7436	0.7353		15,931.1255

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,357.08	1,304.48	1196.65	4,525,812	3,104,707
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	887.00	1,104.78	919.71	1,257,600	862,714
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	262.00	306.60	154.83	547,329	375,467
Total	2,506.08	2,715.86	2,271.19	6,330,741	4,342,888

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.40	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Enclosed Parking with Elevator	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
High Turnover (Sit Down Restaurant)	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Regional Shopping Center	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236
NaturalGas Unmitigated	0.1152	1.0000	0.5337	6.2800e-003		0.0796	0.0796		0.0796	0.0796		1,256.6560	1,256.6560	0.0241	0.0230	1,264.1236

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8021.06	0.0865	0.7392	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.6542	943.6542	0.0181	0.0173	949.2618
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2620.72	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	39.8	4.3000e-004	3.9000e-003	3.2800e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.6824	4.6824	9.0000e-005	9.0000e-005	4.7102
Total		**0.1152**	**1.0000**	**0.5337**	**6.2800e-003**		**0.0796**	**0.0796**		**0.0796**	**0.0796**		**1,256.6559**	**1,256.6559**	**0.0241**	**0.0230**	**1,264.1236**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	8.02106	0.0865	0.7392	0.3146	4.7200e-003		0.0598	0.0598		0.0598	0.0598		943.6542	943.6542	0.0181	0.0173	949.2618
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.62072	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0398	4.3000e-004	3.9000e-003	3.2800e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.6824	4.6824	9.0000e-005	9.0000e-005	4.7102
Total		**0.1152**	**1.0000**	**0.5337**	**6.2800e-003**		**0.0796**	**0.0796**		**0.0796**	**0.0796**		**1,256.6559**	**1,256.6559**	**0.0241**	**0.0230**	**1,264.1236**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358
Unmitigated	8.2348	4.1818	23.4303	0.0263		0.4384	0.4384		0.4384	0.4384	0.0000	5,058.0649	5,058.0649	0.1341	0.0920	5,088.8358

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4601	3.9314	1.6729	0.0251		0.3179	0.3179		0.3179	0.3179	0.0000	5,018.8235	5,018.8235	0.0962	0.0920	5,048.6479
Landscaping	0.6582	0.2504	21.7574	1.1500e-003		0.1206	0.1206		0.1206	0.1206		39.2414	39.2414	0.0379		40.1879
Total	**8.2348**	**4.1818**	**23.4303**	**0.0262**		**0.4384**	**0.4384**		**0.4384**	**0.4384**	**0.0000**	**5,058.0650**	**5,058.0650**	**0.1341**	**0.0920**	**5,088.8358**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5559					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4601	3.9314	1.6729	0.0251		0.3179	0.3179		0.3179	0.3179	0.0000	5,018.8235	5,018.8235	0.0962	0.0920	5,048.6479
Landscaping	0.6582	0.2504	21.7574	1.1500e-003		0.1206	0.1206		0.1206	0.1206		39.2414	39.2414	0.0379		40.1879
Total	**8.2348**	**4.1818**	**23.4303**	**0.0262**		**0.4384**	**0.4384**		**0.4384**	**0.4384**	**0.0000**	**5,058.0650**	**5,058.0650**	**0.1341**	**0.0920**	**5,088.8358**

Appendix C-2

Health Risk Assessment Report

Health Risk Assessment Report for the Pacific Coast Commons Project City of El Segundo, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ASF	age-sensitivity factor
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
DPM	diesel particulate matter
HARP2	Hotspots Analysis and Reporting Program Version 2
HRA	health risk assessment
MM	mitigation measure
OEHHA	Office of Environmental Health Hazard Assessment
PM_{10}	particulate matter with a diameter less than 10 microns
REL	reference exposure level
SCAQMD	South Coast Air Quality Management District
TAC	toxic air contaminant
X/Q	ground-level unity emission concentration
$\mu g/m^3$	microgram per cubic meter

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Summary

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk and non-cancer health impacts to existing sensitive residential receptors in proximity to the proposed Pacific Coast Commons Specific Plan Project (project) due to toxic air contaminant (TAC) emissions from construction of the project.

Air dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 19191 and the Hotspots Analysis and Reporting Program Version 2 (HARP2). The South Coast Air Quality Management District's (SCAQMD's) Modeling Guidance for AERMOD (SCAQMD 2020a), SCAQMD's Risk Assessment Procedures for Rules 1401, 1401.1, and 212 Version 8.1 (SCAQMD 2017), and the Office of Environmental Health Hazard Assessment's (OEHHA's) Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments (2015 Risk Assessment Guidelines Manual) (OEHHA 2015) were used to prepare this HRA. For the residential health risk, the HRA assumes exposure from construction-generated TAC emissions would start in the third trimester of pregnancy and occur for 34 months.

This HRA finds that unmitigated project construction would result in potential chronic health risk at the maximally exposed residential receptor of 0.023, which is below the SCAQMD threshold of 1.0. Chronic health risk impacts would be less than significant. The unmitigated potential cancer risk at the maximally exposed residential receptor would be 41.85 in 1 million, which would exceed the SCAQMD threshold of 10 in 1 million. With implementation of mitigation, the potential cancer and chronic health risk estimates at the maximally exposed residential receptor would be reduced to 4.23 in 1 million and 0.002, respectively, which are below the SCAQMD thresholds. No short-term, acute relative exposure values are established and regulated for diesel particulate matter (DPM), and are therefore not addressed in this assessment.

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1 Introduction

1.1 Purpose

In support of the air quality assessment, the health risk assessment (HRA) modeling analysis was prepared to estimate health risk impacts to existing sensitive receptors from exposure to toxic air contaminant (TAC) emissions from construction of the Pacific Coast Commons Specific Plan Project (project). The analysis in this HRA uses air dispersion modeling and Hotspots Analysis and Reporting Program Version 2 (HARP2) to evaluate potential health risks associated with the project. Results of the modeling analysis are compared with the most recent California Environmental Quality Act (CEQA) significance thresholds established by the South Coast Air Quality Management District (SCAQMD). Per CEQA Guidelines, Appendix G (14 CCR 15000 et seq.), the HRA directly addresses question (c): Would the project expose sensitive receptors to substantial pollutant concentrations?

1.2 Project Description

The project site is located in the City of El Segundo (City) within the County of Los Angeles, approximately 20 miles southwest from downtown Los Angeles. The project involves the implementation of the proposed Pacific Coast Commons Specific Plan (Specific Plan), which totals approximately 6.33 acres of land (post dedications) located in the City adjacent to Pacific Coast Highway. The project would redevelop the existing surface parking lots of the Fairfield Inn & Suites and Aloft Hotel properties, as well as the Fairfield Inn & Suites Food and Beverage Building (formerly the Hacienda Restaurant), through the adoption of a Specific Plan that allows for the development of 263 new housing units, approximately 10,914 square feet of commercial/retail uses, and 803 parking stalls within new parking structures. The Fairfield Inn & Suites and Aloft Hotel would not be redeveloped or expanded. Figure 1, Project Location, provides the project boundaries in the context of the surrounding community and jurisdictions.

1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air-pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The closest off-site sensitive receptors to the project site include residential receptors located approximately 25 feet west of the Pacific Coast Commons – North. Residential receptors are located approximately 65 feet west of the Pacific Coast Commons – Fairfield Parking, and Pacific Coast Commons - South.

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Figure 1 Project Location

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1.4 Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (short term) and/or chronic (long term) non-cancer health effects. A toxic substance released into the air is considered a TAC. Examples include certain aromatic and chlorinated hydrocarbons, diesel particulate matter (DPM), certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced either by acute or chronic exposure to a given TAC.

California's air toxics control program began in 1983 with the passage of the Toxic Air Contaminant Identification and Control Act, Assembly Bill (AB) 1807, better known as the Tanner Bill. The Tanner Bill established a regulatory process for the scientific and public review of individual toxic compounds. When a compound is listed as a TAC under the Tanner process, the California Air Resources Board (CARB) normally establishes minimum statewide emission-control measures to be adopted by air quality management districts and air pollution control districts. By 1992, 18 of the 189 federal hazardous air pollutants had been listed by CARB as state TACs. In April 1993, CARB added 171 substances to the state program to make the state TAC list equivalent to the federal list of hazardous air pollutants. In 1998, CARB designated diesel engine exhaust particulate matter (DPM) as a TAC (CARB 1998). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure values are established for DPM, and it is regulated; therefore, DPM is not addressed in this construction-generated assessment.

The second major component of California's air toxics program, supplementing the Tanner process, was provided by the passage of AB 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. AB 2588 currently regulates over 600 compounds, including all of the Tanner-designated TACs.

Additionally, Proposition 65, passed by California voters in 1986, required that a list of carcinogenic and reproductive toxicants found in the environment be compiled, the discharge of these toxicants into drinking water be prohibited, and warnings of public exposure by air, land, or water be posted if a significant adverse public health risk is posed. The emission of any of the listed substances by a facility would require a public warning unless health risks could be demonstrated to be less than significant. For carcinogens, Proposition 65 defines the "no significant risk level" as the level of exposure that would result in an increased cancer risk of greater than 10 in 1 million over a 70-year lifetime. The "no significant risk level" is 1/1000 of the No Observable Effect Level for reproductive toxicants.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, On-Road Heavy Duty (New) Vehicle Program, In-Use Off-Road Diesel Vehicle Regulation, and New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. Several Airborne Toxic Control Measures reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

1.5 Cancer Risk

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. The cancer risk from inhalation of a TAC is estimated by calculating the inhalation (and if applicable, ingestion and dermal) dose in units of milligrams per kilogram body weight per day based on an ambient concentration in units of micrograms per cubic meter ($\mu g/m^3$), breathing rate, and exposure period and multiplying the dose by the inhalation cancer potency factor, expressed as $(milligrams/kilogram\ body\ weight\ per\ day)^{-1}$. Cancer risks are typically calculated for all carcinogenic TACs and summed to calculate the overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to concentrations at any level of exposure and that risks due to different carcinogens are additive. This approach is generally considered a conservative assumption at low doses and is consistent with the current Office of Environmental Health Hazard Assessment (OEHHA) regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace risks that compromise the immune system, overall health) would result in an increased susceptibility to developing cancer.

1.6 Chronic Non-Cancer Health Impacts

The non-cancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of $\mu g/m^3$ divided by the reference exposure level (REL), also in units of $\mu g/m^3$. The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects on a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients of individual TACs are then summed for each target organ system to obtain a hazard index.

2 Guidance and Thresholds

2.1 Office of Environmental Health Hazard Assessment's Guidance

OEHHA's most recent guidance is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. In response to Senate Bill 25, OEHHA released three technical support documents addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012), and adopted the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The technical support document for RELs and continuing work to re-evaluate TACs to ensure adequate protection for infants and children has led to revisions of RELs for approximately 10 chemicals and chemical families. The basic methodology for evaluating chronic health effects using the RELs otherwise remained the same as in the previous guidance manual. Moreover, RELs are designed to protect the most sensitive individuals in the population, including infants and children, by selecting appropriate toxicological data and including margins of safety. Accordingly, the evaluation methods are assumed to protect children and other sensitive subpopulations (groups of more highly susceptible individuals) from adverse health effects in the event of exposure (OEHHA 2008).

The cancer risk methodology described in the exposure assessment and stochastic analysis technical support document and the 2015 Risk Assessment Guidelines Manual accounts for the higher sensitivity of infants and children by applying age-specific daily breathing rates and age-sensitivity factors (ASFs). According to the technical support document, "accounting for effects of early-in life exposure requires accounting for both the increased potency of early in life exposure to carcinogens and the greater exposure on a per [kilogram] body weight that occurs early in life due to behavioral and physiological differences between infants and children, and adults" (OEHHA 2012). In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years and an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood (OEHHA 2015). The ASF for adults is 1. In addition to the ASFs, children have higher daily breathing rates per unit of body weight than adults. The OEHHA guidance manual considers the age-specific breathing rates in the cancer risk calculations.

In addition, OEHHA and CARB evaluated information from activity patterns databases to estimate the fraction of time at home during the day. From the third trimester to age <2 years, 85% of time is spent at home. From age 2 through <16 years, 72% of time is spent at home. From age 16 years and greater, 73% of time is spent at home. However, for facilities with any school within the 1 in a million or greater isopleth, the OEHHA recommends using a fraction of time at home of 100% for children under 16 years old (OEHHA 2015). Cancer risk parameters, such as ASFs, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2.

2.2 South Coast Air Quality Management District Guidance

SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2020a) provides guidance to perform dispersion modeling for use in HRAs within the South Coast Air Basin. SCAQMD's current thresholds of significance for TAC emissions are presented in Table 1.

Table 1. SCAQMD CEQA TAC Emissions Thresholds

	Noncarcinogens
Carcinogens	*Chronic and Acute*
Maximally exposed individual risk equals or exceeds 10 in 1 million	Hazard Index equals or exceeds 1.0 for the maximally exposed individual

Source: SCAQMD 2019.
Notes: SCAQMD = South Coast Air Quality Management District; CEQA = California Environmental Quality Act; TAC = toxic air contaminant.

3 Modeling Methodology

3.1 Emission Calculation

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod default values. All assumptions pertaining to construction emissions, including phasing, equipment, and vehicle trips, are based on Section 4.2 (Air Quality) of the Environmental Impact Report. Complete detailed construction assumptions are included in Appendix A and are summarized below.

For the purposes of modeling, it was assumed that construction of the project would commence in October 2021 and would last approximately 34 months, ending in July 2024. The analysis contained herein is based on the following assumptions (duration of phases is approximate), as shown in Table 2.

Table 2. Construction Phasing Assumptions

Project Construction Phase	Start Date	End Date	Duration (days)
Phase 1 - Demolition	10/1/2021	10/31/2021	21
Phase 1 - Site Preparation	11/1/2021	11/30/2021	22
Phase 1 - Grading	12/1/2021	1/31/2022	44
Phase 1 - Building Construction	2/1/2022	10/31/2022	195
Phase 1 - Paving	11/1/2022	12/31/2022	44
Phase 1 - Architectural Coating	11/1/2022	12/31/2022	44
Phases 2 and 3 - Demolition	1/1/2023	2/28/2023	42
Phases 2 and 3 - Site Preparation	3/1/2023	3/30/2023	22
Phases 2 and 3 - Grading	4/1/2023	5/30/2023	42
Phases 2 and 3 - Building Construction	6/1/2023	4/30/2024	239
Phases 2 and 3 - Paving	6/1/2024	7/31/2024	43
Phases 2 and 3 - Architectural Coating	6/1/2024	7/31/2024	43

Source: See Appendix A for complete results.

The HRA focuses on DPM emitted from exhaust from on-site construction equipment and diesel vehicles. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment. Notably, to include only on-site emissions from diesel haul and vendor trucks, they were conservatively assumed to operate for 0.19 miles on site (1,000 feet).

Unmitigated Construction Emissions

Table 3 presents the estimated unmitigated annual construction exhaust PM_{10} emissions, a surrogate for DPM, generated during construction of the project. The annual construction emissions is the average of the total of all years of construction exhaust PM_{10} emissions over the duration of construction.

Table 3. Unmitigated Project Annual On-Site Construction Emissions – Exhaust Only

Source	PM_{10}	
	Pounds per Year	*Pounds per Hour*
Construction	215.15	0.10

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter.
Annual pounds-per-year emissions is the average of the total from all years of construction, and the hourly emissions is based on the construction schedule of 5 days per week, 8 hours per day, and 34 months of total construction.

As shown in Section 4, HRA Results, the results of the HRA using the default construction emission factors in CalEEMod result in a potentially significant impact. As such, the following mitigation measure (MM) is included to reduce DPM emissions from construction equipment.

Mitigation Measure

MM-AQ-1: To reduce the potential for criteria air pollutants, specifically particulate matter (PM), as a result of construction of the project, the applicant shall:

Prior to the start of construction activities, the project applicant, or its designee, shall ensure that all 75 horsepower or greater diesel-powered equipment are powered with California Air Resources Board (CARB)-certified Tier 4 Interim engines, except where the project applicant establishes to the satisfaction of the City of El Segundo (City) that Tier 4 Interim equipment is not available.

In the case where the applicant is unable to secure a piece of equipment that meets the Tier 4 Interim requirement, the applicant may upgrade another piece of equipment to compensate, such as equipping CARB-certified Tier 3 engines with the most effective Verified Diesel Emission Control Strategies available for the engine type, such as Level 3 Diesel Particulate Filters (Tier 4 engines automatically meet this requirement) or upgrading Tier 4 interim to Tier 4 Final.

Mitigated Construction Emissions

The project emissions incorporating the tiered equipment as outlined in **MM-AQ-1** are shown in Table 4.

Table 4. Mitigated Project Annual On-Site Construction Emissions – Exhaust Only

Source	PM_{10}	
	Pounds per Year	*Pounds per Hour*
Construction	22.63	0.01

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter.
Annual pounds per year emissions is the total from all years of construction, and the hourly emissions is based on the construction schedule of 8 hours per day and 34 months of total construction. Mitigated construction emissions include implementation of **MM-AQ-1**.

3.2 Dispersion Model

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or school

receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

A dispersion modeling analysis of DPM emitted from project construction diesel vehicles and off-road equipment was conducted on the areas surrounding the project site for the HRA. The dispersion modeling was performed using AERMOD Version 19191, which is the model United States Environmental Protection Agency approved and SCAQMD recommends for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain. Based on the construction schedule of 8 hours per day, 5 days per week, the variable emission factor of 4.2 was applied (7:00 a.m. to 4:00 p.m. with an hour break for lunch). Principal parameters of AERMOD for the project modeling included the following:

- **Dispersion Model:** The air dispersion model used was AERMOD Version 19191, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.9.1. A unit emission rate was normalized over the line of adjacent volume sources (i.e., construction equipment and on-site truck travel) for the AERMOD run to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The maximum concentrations were determined for the 1-hour and Period averaging periods.
- **Meteorological Data:** The latest 5-year meteorological data for the Los Angeles International Airport (KLAX) station (Station ID) from SCAQMD were downloaded (SCAQMD 2020b), and then input to AERMOD. For cancer and chronic non-cancer risk assessments, the average cancer and chronic non-cancer risk of all years modeled was used. A wind rose is provided for this station on Figure 2.
- **Urban and Rural Options:** Typically, urban areas have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus, more heat, relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected and Los Angeles County population for year 2010 (9,818,605 persons) was input into AERMOD (SCAQMD 2020a).
- **Terrain Characteristics:** Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset dataset with resolution of 1/3 arc-second was used (SCAQMD 2020a).
- **Sensitive Receptors:** This HRA evaluates the risk to existing residential receptor located in proximity to the project. A uniform 2-kilometer by 2-kilometer Cartesian grid with 50-meter spacing was centered over the project site and converted into discrete receptors to represent proximate sensitive receptors. The closest off-site sensitive receptors to the project site include residential receptors located approximately 25 feet west of the Pacific Coast Commons – North. Residential receptors are located approximately 65 feet west of the Pacific Coast Commons – Fairfield Parking and Pacific Coast Commons - South.
- **Source Release Construction Scenario:** Air dispersion modeling of DPM emissions was conducted assuming the equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment and on-site truck travel DPM emissions were modeled as a line of adjacent volume

sources across the project site to represent project construction with a release height of 5 meters, a plume height of 2.33 meters, and a plume width of 11.63 meters (EPA 2004; SCAQMD 2008).

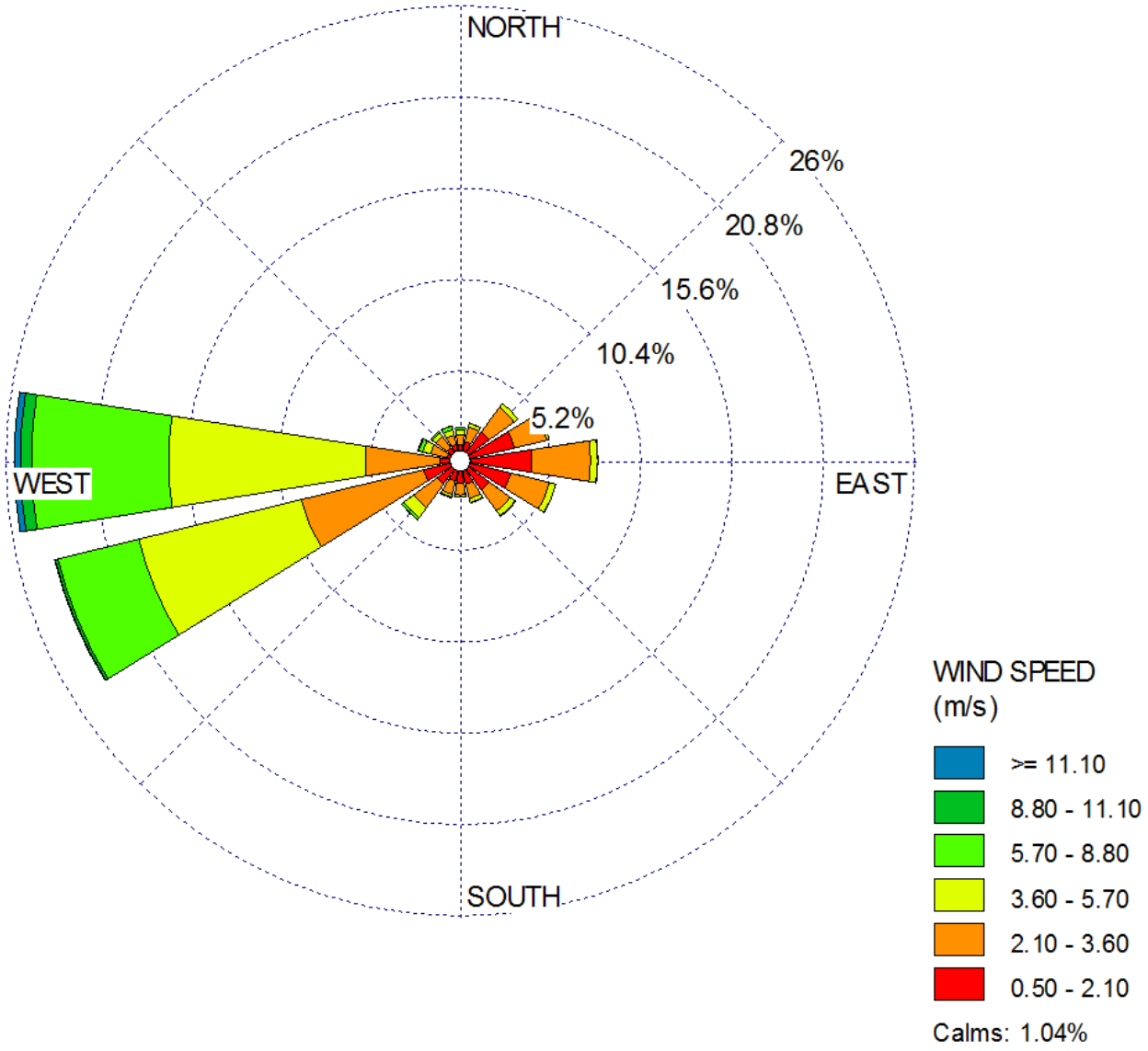
3.3 Health Risk Assessment Methodology

In March 2015, the OEHHA approved the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). SCAQMD requires that all HRAs prepared for CEQA documents follow SCAQMD policies in conjunction with the 2015 Risk Assessment Guidelines Manual. Cancer and non-cancer health risk calculations were performed for the project using ground-level unity emission concentration (X/Q) input from AERMOD. Based on the construction schedule of 8 hours per day, 5 days per week, the variable emission factor of 4.2 was applied. This modeling established the emissions dispersion field to the existing sensitive receptors from atmospheric influence of the project construction DPM emissions. Plot files generated in AERMOD were then imported into HARP2, with ground level concentrations determined by multiplication of emission rates and X/Q values for the total volume sources of emissions. HARP2 then assessed resulting cancer and non-cancer risk at the existing receptors from exposure to TAC emissions using the Risk Management Policy-derived calculation method (SCAQMD 2017).

For the purposes of this assessment, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to construction-generated TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. For the residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy and occur for 34 months.

p

Figure 2. Wind Rose of Meteorological Data – KLAX Station



Source: SCAQMD 2020b.

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4 Health Risk Results

The cancer risk calculations were performed by multiplying the AERMOD-predicted DPM concentrations in $\mu g/m^3$ per unit gram per second due to DPM emissions from trucks and construction equipment by the appropriate risk values. The potential exposure pathway for DPM includes inhalation only. The potential exposure through other pathways (e.g., ingestion) requires substance and site-specific data, and the specific parameters for DPM are not known for these pathways (CARB 1998).

Table 5 shows the maximum cancer and chronic health risks at the maximally exposed residential receptor from project construction. AERMOD and HARP2 outputs are in Appendix B.

Table 5. Summary of Maximum Construction Cancer and Chronic Health Risks - Unmitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	41.85	10	**Potentially Significant**
	Chronic Hazard Index	Index Value	0.023	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment.

As shown in Table 5, the HRA results from the unmitigated scenario show the cancer risk exceeding the 10 in 1 million threshold and thus a potentially significant impact at the maximally exposed individual residential receptor. These potentially significant health risk impacts triggered the requirement of **MM-AQ-1** in order to reduce project construction-generated DPM emissions to the extent feasible. The HRA results after incorporation of **MM-AQ-1** are presented in Table 6.

Table 6. Summary of Maximum Construction Cancer and Chronic Health Risks - Mitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	4.23	10	Less than Significant
	Chronic Hazard Index	Index Value	0.002	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

As shown in Table 6, the HRA results from the mitigated scenario show cancer risks less than the 10 in 1 million threshold and chronic hazard index less than the 1.0 threshold.

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5 Conclusions

The results determined in this analysis reflect reasonable estimates of source emissions and exhaust characteristics, available meteorological data near the project site, and the use of currently approved air quality models. Given the limits of available tools for such an analysis, the actual impacts may vary from the estimates in this assessment. However, the combined use of the AERMOD dispersion model and the health impact calculations required by OEHHA and SCAQMD tend to over-predict impacts, such that they produce conservative (i.e., health-protective) results. For this reason, the estimated cancer risks and non-cancer hazard indices reported in this analysis are likely upper-bound estimates for potential exposure to project-related emissions. In addition, the estimated cancer risks and non-cancer hazard indices represent the maximum exposed individual resident and do not represent the risk over a broad area. The actual risks of cancer or non-cancer effects from the project are likely to be lower than presented herein.

Based on this analysis, project construction would result in potential chronic health risk at the maximally exposed sensitive receptor below the SCAQMD threshold without the need for mitigation. However, potential cancer health risk impacts from project construction at the proximate existing sensitive receptor would exceed the SCAQMD threshold. With implementation of **MM-AQ-1**, cancer health risk impacts from project construction would be reduced to less than the SCAQMD threshold.

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Appendix A

Emission Calculations

CalEEMod Version: CalEEMod.2016.3.2

Date: 12/10/2020 9:21 AM

Pacific Coast Commons Specific Plan Project Mit
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	763.00	Space	0.00	305,200.00	0
Other Asphalt Surfaces	12.65	1000sqft	0.00	12,650.00	0
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Apartments Mid Rise	263.00	Dwelling Unit	0.00	314,659.00	752
Regional Shopping Center	7.30	1000sqft	5.35	7,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	561.77	**CH4 Intensity (lb/MWhr)**	0.02	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PCC SP. SCAQMD. Adjusted to meet 36.5% RPS (SCE 2018 Sustainability Report).

Land Use - Updated land use assumptions per applicant.

Construction Phase - Updated construction schedule per applicant.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Default equipment assumed.

Trips and VMT - Updated per applicant.

Demolition - Phase 1: 41,660 SF of building demo, Phases 2 and 3: 1,938.785 tons of pavement demo.

Grading - 17,000 CY of soil export during Phase 2.

Architectural Coating - Use of low-VOC (50 g/L). Updated SF per phase.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	4,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,500.00	1,400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	12,300.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,500.00	4,200.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	1,779.00
tblArchitecturalCoating	ConstArea_Parking	19,071.00	180.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	212,395.00	212,213.00
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tblArchitecturalCoating	ConstArea_Residential_Interior	637,184.00	636,338.00
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tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_Parking	19071	1959
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstructionPhase	NumDays	230.00	262.00
tblConstructionPhase	NumDays	230.00	195.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	44.00

tblConstructionPhase	NumDays	20.00	42.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblEnergyUse	T24E	179.76	176.16
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	8.71	7.78
tblEnergyUse	T24E	2.93	2.62
tblEnergyUse	T24NG	5,911.46	5,615.89
tblEnergyUse	T24NG	78.56	77.77
tblEnergyUse	T24NG	0.95	0.94
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	223.55	237.00
tblFireplaces	NumberNoFireplace	26.30	26.00
tblFireplaces	NumberWood	13.15	0.00
tblGrading	AcresOfGrading	22.00	21.50
tblGrading	MaterialExported	0.00	17,000.00
tblLandUse	LandUseSquareFeet	263,000.00	314,659.00
tblLandUse	LotAcreage	6.87	0.00
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.08	0.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	0.17	5.35
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tblProjectCharacteristics	CO2IntensityFactor	702.44	561.77
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
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tblTripsAndVMT	HaulingTripLength	20.00	0.19

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tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
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tblTripsAndVMT	WorkerTripNumber	15.00	0.00
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tblTripsAndVMT	WorkerTripNumber	15.00	0.00
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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
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tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1031	1.0956	0.6489	1.2000e-003	0.3000	0.0521	0.3521	0.1517	0.0481	0.1998	0.0000	106.1188	106.1188	0.0322	0.0000	106.9241
2022	0.2273	2.2330	2.1649	3.7300e-003	0.0754	0.1031	0.1785	0.0362	0.0967	0.1329	0.0000	324.7651	324.7651	0.0809	0.0000	326.7866
2023	0.2397	2.6038	2.2379	4.3500e-003	0.3594	0.1044	0.4639	0.1837	0.0974	0.2811	0.0000	383.0691	383.0691	0.0970	0.0000	385.4945
2024	1.1170	1.2022	1.2932	2.3000e-003	9.1000e-004	0.0452	0.0461	2.8000e-004	0.0424	0.0426	0.0000	201.7506	201.7506	0.0475	0.0000	202.9387
Maximum	**1.1170**	**2.6038**	**2.2379**	**4.3500e-003**	**0.3594**	**0.1044**	**0.4639**	**0.1837**	**0.0974**	**0.2811**	**0.0000**	**383.0691**	**383.0691**	**0.0970**	**0.0000**	**385.4945**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0206	0.4305	0.7375	1.2000e-003	0.1171	1.9000e-003	0.1190	0.0592	1.9000e-003	0.0611	0.0000	106.1186	106.1186	0.0322	0.0000	106.9240
2022	0.1038	1.6207	2.4303	3.7300e-003	0.0298	0.0131	0.0430	0.0143	0.0131	0.0274	0.0000	324.7648	324.7648	0.0809	0.0000	326.7862
2023	0.0947	1.8265	2.6221	4.3500e-003	0.1410	0.0102	0.1512	0.0719	0.0102	0.0820	0.0000	383.0687	383.0687	0.0970	0.0000	385.4941
2024	1.0619	1.0586	1.4537	2.3000e-003	9.1000e-004	6.8600e-003	7.7800e-003	2.8000e-004	6.8600e-003	7.1400e-003	0.0000	201.7504	201.7504	0.0475	0.0000	202.9385
Maximum	**1.0619**	**1.8265**	**2.6221**	**4.3500e-003**	**0.1410**	**0.0131**	**0.1512**	**0.0719**	**0.0131**	**0.0820**	**0.0000**	**383.0687**	**383.0687**	**0.0970**	**0.0000**	**385.4941**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	24.08	30.81	-14.16	0.00	60.74	89.48	69.16	60.84	88.74	72.94	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition - Phase 1	Demolition	10/1/2021	10/31/2021	5	21	
2	Site Preparation - Phase 1	Site Preparation	11/1/2021	11/30/2021	5	22	
3	Grading - Phase 1	Grading	12/1/2021	1/31/2022	5	44	
4	Building Construction - Phase 1	Building Construction	2/1/2022	10/31/2022	5	195	
5	Paving - Phase 1	Paving	11/1/2022	12/31/2022	5	44	
6	Architectural Coating - Phase 1	Architectural Coating	11/1/2022	12/31/2022	5	44	
7	Demolition - Phases 2 and 3	Demolition	1/1/2023	2/28/2023	5	42	
8	Site Preparation - Phases 2 and 3	Site Preparation	3/1/2023	3/30/2023	5	22	
9	Grading - Phases 2 and 3	Grading	4/1/2023	5/30/2023	5	42	
10	Building Construction - Phases 2 and 3	Building Construction	6/1/2023	5/31/2024	5	262	
11	Paving - Phases 2 and 3	Paving	6/1/2024	7/31/2024	5	43	
12	Architectural Coating - Phases 2 and 3	Architectural Coating	6/1/2024	7/31/2024	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 4,200; Non-Residential Outdoor: 1,400; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition - Phase 1	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phase 1	Excavators	3	8.00	158	0.38
Demolition - Phase 1	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase 1	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phase 1	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	1	8.00	158	0.38
Grading - Phase 1	Graders	1	8.00	187	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase 1	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase 1	Cranes	1	7.00	231	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Paving - Phase 1	Pavers	2	8.00	130	0.42
Paving - Phase 1	Paving Equipment	2	8.00	132	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Demolition - Phases 2 and 3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition - Phases 2 and 3	Excavators	3	8.00	158	0.38
Demolition - Phases 2 and 3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phases 2 and 3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation - Phases 2 and 3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phases 2 and 3	Excavators	1	8.00	158	0.38
Grading - Phases 2 and 3	Graders	1	8.00	187	0.41
Grading - Phases 2 and 3	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phases 2 and 3	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phases 2 and 3	Cranes	1	7.00	231	0.29

Building Construction - Phases 2 and 3	Forklifts	3	8.00	89	0.20
Building Construction - Phases 2 and 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phases 2 and 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phases 2 and 3	Welders	1	8.00	46	0.45
Paving - Phases 2 and 3	Pavers	2	8.00	130	0.42
Paving - Phases 2 and 3	Paving Equipment	2	8.00	132	0.36
Paving - Phases 2 and 3	Rollers	2	8.00	80	0.38
Architectural Coating - Phases 2 and 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition - Phase 1	6	0.00	20.00	200.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase 1	7	0.00	10.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	6	0.00	10.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	0.00	30.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	0.00	10.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	0.00	20.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Demolition - Phases 2 and 3	6	0.00	40.00	200.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phases 2 and 3	7	0.00	20.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phases 2 and 3	6	0.00	20.00	1,720.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction - Phases 2 and 3	9	0.00	60.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phases 2 and 3	6	0.00	20.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phases 2 and 3	1	0.00	40.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3301	0.2264	4.1000e-004		0.0163	0.0163		0.0151	0.0151	0.0000	35.7008	35.7008	0.0101	0.0000	35.9520
Total	**0.0332**	**0.3301**	**0.2264**	**4.1000e-004**	**0.0205**	**0.0163**	**0.0368**	**3.1000e-003**	**0.0151**	**0.0182**	**0.0000**	**35.7008**	**35.7008**	**0.0101**	**0.0000**	**35.9520**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	9.4900e-003	1.2900e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0853	1.0853	1.7000e-004	0.0000	1.0896
Vendor	3.0000e-004	0.0126	2.9600e-003	1.0000e-005	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.2511	1.2511	2.0000e-004	0.0000	1.2560
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.8000e-004**	**0.0221**	**4.2500e-003**	**2.0000e-005**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**2.3364**	**2.3364**	**3.7000e-004**	**0.0000**	**2.3457**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-003	0.0000	8.0000e-003	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1300e-003	0.1424	0.2591	4.1000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.7008	35.7008	0.0101	0.0000	35.9520
Total	**6.1300e-003**	**0.1424**	**0.2591**	**4.1000e-004**	**8.0000e-003**	**6.5000e-004**	**8.6500e-003**	**1.2100e-003**	**6.5000e-004**	**1.8600e-003**	**0.0000**	**35.7008**	**35.7008**	**0.0101**	**0.0000**	**35.9520**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	9.4900e-003	1.2900e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0853	1.0853	1.7000e-004	0.0000	1.0896
Vendor	3.0000e-004	0.0126	2.9600e-003	1.0000e-005	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.2511	1.2511	2.0000e-004	0.0000	1.2560
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.8000e-004**	**0.0221**	**4.2500e-003**	**2.0000e-005**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**2.3364**	**2.3364**	**3.7000e-004**	**0.0000**	**2.3457**

3.3 Site Preparation - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7793	36.7793	0.0119	0.0000	37.0767
Total	**0.0428**	**0.4455**	**0.2327**	**4.2000e-004**	**0.1987**	**0.0225**	**0.2212**	**0.1092**	**0.0207**	**0.1299**	**0.0000**	**36.7793**	**36.7793**	**0.0119**	**0.0000**	**37.0767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	6.5900e-003	1.5500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6553	0.6553	1.0000e-004	0.0000	0.6579
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**6.5900e-003**	**1.5500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6553**	**0.6553**	**1.0000e-004**	**0.0000**	**0.6579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0775	0.0000	0.0775	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6600e-003	0.1338	0.2526	4.2000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	36.7792	36.7792	0.0119	0.0000	37.0766
Total	**7.6600e-003**	**0.1338**	**0.2526**	**4.2000e-004**	**0.0775**	**6.8000e-004**	**0.0782**	**0.0426**	**6.8000e-004**	**0.0433**	**0.0000**	**36.7792**	**36.7792**	**0.0119**	**0.0000**	**37.0766**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	6.5900e-003	1.5500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6553	0.6553	1.0000e-004	0.0000	0.6579
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**6.5900e-003**	**1.5500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6553**	**0.6553**	**1.0000e-004**	**0.0000**	**0.6579**

3.4 Grading - Phase 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0393	0.0000	0.0393	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.1824	3.4000e-004		0.0133	0.0133		0.0123	0.0123	0.0000	29.9618	29.9618	9.6900e-003	0.0000	30.2040
Total	**0.0263**	**0.2845**	**0.1824**	**3.4000e-004**	**0.0807**	**0.0133**	**0.0940**	**0.0393**	**0.0123**	**0.0516**	**0.0000**	**29.9618**	**29.9618**	**9.6900e-003**	**0.0000**	**30.2040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	6.8900e-003	1.6200e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6851	0.6851	1.1000e-004	0.0000	0.6878
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**6.8900e-003**	**1.6200e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6851**	**0.6851**	**1.1000e-004**	**0.0000**	**0.6878**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0315	0.0000	0.0315	0.0153	0.0000	0.0153	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9800e-003	0.1188	0.2184	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	29.9617	29.9617	9.6900e-003	0.0000	30.2040
Total	**5.9800e-003**	**0.1188**	**0.2184**	**3.4000e-004**	**0.0315**	**5.6000e-004**	**0.0320**	**0.0153**	**5.6000e-004**	**0.0159**	**0.0000**	**29.9617**	**29.9617**	**9.6900e-003**	**0.0000**	**30.2040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	6.8900e-003	1.6200e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6851	0.6851	1.1000e-004	0.0000	0.6878
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**6.8900e-003**	**1.6200e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6851**	**0.6851**	**1.1000e-004**	**0.0000**	**0.6878**

3.4 Grading - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0746	0.0000	0.0746	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0205	0.2190	0.1604	3.1000e-004		9.8800e-003	9.8800e-003		9.0900e-003	9.0900e-003	0.0000	27.3575	27.3575	8.8500e-003	0.0000	27.5787
Total	**0.0205**	**0.2190**	**0.1604**	**3.1000e-004**	**0.0746**	**9.8800e-003**	**0.0845**	**0.0360**	**9.0900e-003**	**0.0451**	**0.0000**	**27.3575**	**27.3575**	**8.8500e-003**	**0.0000**	**27.5787**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	6.1400e-003	1.3800e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6203	0.6203	9.0000e-005	0.0000	0.6226
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4000e-004**	**6.1400e-003**	**1.3800e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6203**	**0.6203**	**9.0000e-005**	**0.0000**	**0.6226**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0291	0.0000	0.0291	0.0140	0.0000	0.0140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4600e-003	0.1085	0.1994	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.3575	27.3575	8.8500e-003	0.0000	27.5787
Total	**5.4600e-003**	**0.1085**	**0.1994**	**3.1000e-004**	**0.0291**	**5.1000e-004**	**0.0296**	**0.0140**	**5.1000e-004**	**0.0146**	**0.0000**	**27.3575**	**27.3575**	**8.8500e-003**	**0.0000**	**27.5787**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	6.1400e-003	1.3800e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6203	0.6203	9.0000e-005	0.0000	0.6226
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4000e-004**	**6.1400e-003**	**1.3800e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.6203**	**0.6203**	**9.0000e-005**	**0.0000**	**0.6226**

3.5 Building Construction - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1664	1.5225	1.5954	2.6300e-003		0.0789	0.0789		0.0742	0.0742	0.0000	225.9321	225.9321	0.0541	0.0000	227.2853
Total	**0.1664**	**1.5225**	**1.5954**	**2.6300e-003**		**0.0789**	**0.0789**		**0.0742**	**0.0742**	**0.0000**	**225.9321**	**225.9321**	**0.0541**	**0.0000**	**227.2853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8400e-003	0.1710	0.0384	1.8000e-004	5.8000e-004	7.0000e-005	6.5000e-004	1.8000e-004	6.0000e-005	2.4000e-004	0.0000	17.2787	17.2787	2.5900e-003	0.0000	17.3434
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8400e-003**	**0.1710**	**0.0384**	**1.8000e-004**	**5.8000e-004**	**7.0000e-005**	**6.5000e-004**	**1.8000e-004**	**6.0000e-005**	**2.4000e-004**	**0.0000**	**17.2787**	**17.2787**	**2.5900e-003**	**0.0000**	**17.3434**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0747	1.0446	1.7621	2.6300e-003		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	225.9318	225.9318	0.0541	0.0000	227.2850
Total	**0.0747**	**1.0446**	**1.7621**	**2.6300e-003**		**9.9200e-003**	**9.9200e-003**		**9.9200e-003**	**9.9200e-003**	**0.0000**	**225.9318**	**225.9318**	**0.0541**	**0.0000**	**227.2850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8400e-003	0.1710	0.0384	1.8000e-004	5.8000e-004	7.0000e-005	6.5000e-004	1.8000e-004	6.0000e-005	2.4000e-004	0.0000	17.2787	17.2787	2.5900e-003	0.0000	17.3434
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8400e-003**	**0.1710**	**0.0384**	**1.8000e-004**	**5.8000e-004**	**7.0000e-005**	**6.5000e-004**	**1.8000e-004**	**6.0000e-005**	**2.4000e-004**	**0.0000**	**17.2787**	**17.2787**	**2.5900e-003**	**0.0000**	**17.3434**

3.6 Paving - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2448	0.3208	5.0000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0243**	**0.2448**	**0.3208**	**5.0000e-004**		**0.0125**	**0.0125**		**0.0115**	**0.0115**	**0.0000**	**44.0606**	**44.0606**	**0.0143**	**0.0000**	**44.4169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0129	2.8900e-003	1.0000e-005	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	1.2996	1.2996	1.9000e-004	0.0000	1.3045
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**0.0129**	**2.8900e-003**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**1.2996**	**1.2996**	**1.9000e-004**	**0.0000**	**1.3045**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3500e-003	0.2209	0.3805	5.0000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.3500e-003**	**0.2209**	**0.3805**	**5.0000e-004**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**44.0606**	**44.0606**	**0.0143**	**0.0000**	**44.4168**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0129	2.8900e-003	1.0000e-005	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	1.2996	1.2996	1.9000e-004	0.0000	1.3045
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**0.0129**	**2.8900e-003**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**1.2996**	**1.2996**	**1.9000e-004**	**0.0000**	**1.3045**

3.7 Architectural Coating - Phase 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-003	0.0310	0.0399	7.0000e-005		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	5.6172	5.6172	3.7000e-004	0.0000	5.6263
Total	**0.0114**	**0.0310**	**0.0399**	**7.0000e-005**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**5.6172**	**5.6172**	**3.7000e-004**	**0.0000**	**5.6263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8000e-004	0.0257	5.7800e-003	3.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	2.5992	2.5992	3.9000e-004	0.0000	2.6089
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8000e-004**	**0.0257**	**5.7800e-003**	**3.0000e-005**	**9.0000e-005**	**1.0000e-005**	**1.0000e-004**	**3.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**2.5992**	**2.5992**	**3.9000e-004**	**0.0000**	**2.6089**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-003	0.0310	0.0399	7.0000e-005		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	5.6172	5.6172	3.7000e-004	0.0000	5.6263
Total	**0.0114**	**0.0310**	**0.0399**	**7.0000e-005**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**5.6172**	**5.6172**	**3.7000e-004**	**0.0000**	**5.6263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8000e-004	0.0257	5.7800e-003	3.0000e-005	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	2.5992	2.5992	3.9000e-004	0.0000	2.6089
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8000e-004**	**0.0257**	**5.7800e-003**	**3.0000e-005**	**9.0000e-005**	**1.0000e-005**	**1.0000e-004**	**3.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**2.5992**	**2.5992**	**3.9000e-004**	**0.0000**	**2.6089**

3.8 Demolition - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0207	0.0000	0.0207	3.1400e-003	0.0000	3.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.4512	0.4125	8.2000e-004		0.0210	0.0210		0.0195	0.0195	0.0000	71.3833	71.3833	0.0200	0.0000	71.8831
Total	**0.0477**	**0.4512**	**0.4125**	**8.2000e-004**	**0.0207**	**0.0210**	**0.0417**	**3.1400e-003**	**0.0195**	**0.0226**	**0.0000**	**71.3833**	**71.3833**	**0.0200**	**0.0000**	**71.8831**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.6800e-003	1.0600e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0258	1.0258	1.3000e-004	0.0000	1.0290
Vendor	8.6000e-004	0.0426	9.7600e-003	5.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	4.7485	4.7485	5.9000e-004	0.0000	4.7633
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8000e-004**	**0.0503**	**0.0108**	**6.0000e-005**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**5.7742**	**5.7742**	**7.2000e-004**	**0.0000**	**5.7923**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0900e-003	0.0000	8.0900e-003	1.2200e-003	0.0000	1.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0123	0.2847	0.5182	8.2000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	71.3833	71.3833	0.0200	0.0000	71.8830
Total	**0.0123**	**0.2847**	**0.5182**	**8.2000e-004**	**8.0900e-003**	**1.2900e-003**	**9.3800e-003**	**1.2200e-003**	**1.2900e-003**	**2.5100e-003**	**0.0000**	**71.3833**	**71.3833**	**0.0200**	**0.0000**	**71.8830**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.6800e-003	1.0600e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0258	1.0258	1.3000e-004	0.0000	1.0290
Vendor	8.6000e-004	0.0426	9.7600e-003	5.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	4.7485	4.7485	5.9000e-004	0.0000	4.7633
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8000e-004**	**0.0503**	**0.0108**	**6.0000e-005**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**6.0000e-005**	**1.0000e-005**	**7.0000e-005**	**0.0000**	**5.7742**	**5.7742**	**7.2000e-004**	**0.0000**	**5.7923**

3.9 Site Preparation - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3028	0.2007	4.2000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	36.7958	36.7958	0.0119	0.0000	37.0933
Total	**0.0293**	**0.3028**	**0.2007**	**4.2000e-004**	**0.1987**	**0.0139**	**0.2127**	**0.1092**	**0.0128**	**0.1221**	**0.0000**	**36.7958**	**36.7958**	**0.0119**	**0.0000**	**37.0933**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	0.0112	2.5600e-003	1.0000e-005	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	1.2436	1.2436	1.6000e-004	0.0000	1.2475
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.3000e-004**	**0.0112**	**2.5600e-003**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**1.2436**	**1.2436**	**1.6000e-004**	**0.0000**	**1.2475**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0775	0.0000	0.0775	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6600e-003	0.1338	0.2526	4.2000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	36.7957	36.7957	0.0119	0.0000	37.0932
Total	**7.6600e-003**	**0.1338**	**0.2526**	**4.2000e-004**	**0.0775**	**6.8000e-004**	**0.0782**	**0.0426**	**6.8000e-004**	**0.0433**	**0.0000**	**36.7957**	**36.7957**	**0.0119**	**0.0000**	**37.0932**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	0.0112	2.5600e-003	1.0000e-005	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	1.2436	1.2436	1.6000e-004	0.0000	1.2475
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.3000e-004**	**0.0112**	**2.5600e-003**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**1.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**1.2436**	**1.2436**	**1.6000e-004**	**0.0000**	**1.2475**

3.10 Grading - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1386	0.0000	0.1386	0.0709	0.0000	0.0709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.3767	0.3098	6.2000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	54.7273	54.7273	0.0177	0.0000	55.1698
Total	**0.0359**	**0.3767**	**0.3098**	**6.2000e-004**	**0.1386**	**0.0163**	**0.1548**	**0.0709**	**0.0150**	**0.0858**	**0.0000**	**54.7273**	**54.7273**	**0.0177**	**0.0000**	**55.1698**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9000e-004	0.0660	9.1300e-003	9.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	8.8217	8.8217	1.1100e-003	0.0000	8.8494
Vendor	4.3000e-004	0.0213	4.8800e-003	2.0000e-005	8.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.3742	2.3742	3.0000e-004	0.0000	2.3817
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4200e-003**	**0.0873**	**0.0140**	**1.1000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**8.0000e-005**	**3.0000e-005**	**9.0000e-005**	**0.0000**	**11.1959**	**11.1959**	**1.4100e-003**	**0.0000**	**11.2311**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0540	0.0000	0.0540	0.0276	0.0000	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.2170	0.3988	6.2000e-004		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	54.7272	54.7272	0.0177	0.0000	55.1697
Total	**0.0109**	**0.2170**	**0.3988**	**6.2000e-004**	**0.0540**	**1.0200e-003**	**0.0551**	**0.0276**	**1.0200e-003**	**0.0287**	**0.0000**	**54.7272**	**54.7272**	**0.0177**	**0.0000**	**55.1697**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9000e-004	0.0660	9.1300e-003	9.0000e-005	1.6000e-004	2.0000e-005	1.8000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	8.8217	8.8217	1.1100e-003	0.0000	8.8494
Vendor	4.3000e-004	0.0213	4.8800e-003	2.0000e-005	8.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.3742	2.3742	3.0000e-004	0.0000	2.3817
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4200e-003**	**0.0873**	**0.0140**	**1.1000e-004**	**2.4000e-004**	**3.0000e-005**	**2.7000e-004**	**8.0000e-005**	**3.0000e-005**	**9.0000e-005**	**0.0000**	**11.1959**	**11.1959**	**1.4100e-003**	**0.0000**	**11.2311**

3.11 Building Construction - Phases 2 and 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1195	1.0933	1.2345	2.0500e-003		0.0532	0.0532		0.0500	0.0500	0.0000	176.1716	176.1716	0.0419	0.0000	177.2193
Total	**0.1195**	**1.0933**	**1.2345**	**2.0500e-003**		**0.0532**	**0.0532**		**0.0500**	**0.0500**	**0.0000**	**176.1716**	**176.1716**	**0.0419**	**0.0000**	**177.2193**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6700e-003	0.2312	0.0530	2.6000e-004	9.1000e-004	6.0000e-005	9.7000e-004	2.7000e-004	6.0000e-005	3.3000e-004	0.0000	25.7773	25.7773	3.2300e-003	0.0000	25.8580
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.6700e-003**	**0.2312**	**0.0530**	**2.6000e-004**	**9.1000e-004**	**6.0000e-005**	**9.7000e-004**	**2.7000e-004**	**6.0000e-005**	**3.3000e-004**	**0.0000**	**25.7773**	**25.7773**	**3.2300e-003**	**0.0000**	**25.8580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0566	0.8110	1.3722	2.0500e-003		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	176.1714	176.1714	0.0419	0.0000	177.2191
Total	**0.0566**	**0.8110**	**1.3722**	**2.0500e-003**		**7.0700e-003**	**7.0700e-003**		**7.0700e-003**	**7.0700e-003**	**0.0000**	**176.1714**	**176.1714**	**0.0419**	**0.0000**	**177.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6700e-003	0.2312	0.0530	2.6000e-004	9.1000e-004	6.0000e-005	9.7000e-004	2.7000e-004	6.0000e-005	3.3000e-004	0.0000	25.7773	25.7773	3.2300e-003	0.0000	25.8580
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.6700e-003**	**0.2312**	**0.0530**	**2.6000e-004**	**9.1000e-004**	**6.0000e-005**	**9.7000e-004**	**2.7000e-004**	**6.0000e-005**	**3.3000e-004**	**0.0000**	**25.7773**	**25.7773**	**3.2300e-003**	**0.0000**	**25.8580**

3.11 Building Construction - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0809	0.7394	0.8892	1.4800e-003		0.0337	0.0337		0.0317	0.0317	0.0000	127.5170	127.5170	0.0302	0.0000	128.2709
Total	**0.0809**	**0.7394**	**0.8892**	**1.4800e-003**		**0.0337**	**0.0337**		**0.0317**	**0.0317**	**0.0000**	**127.5170**	**127.5170**	**0.0302**	**0.0000**	**128.2709**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.1667	0.0364	1.9000e-004	6.6000e-004	4.0000e-005	7.0000e-004	2.0000e-004	4.0000e-005	2.4000e-004	0.0000	18.4678	18.4678	2.2500e-003	0.0000	18.5242
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2300e-003**	**0.1667**	**0.0364**	**1.9000e-004**	**6.6000e-004**	**4.0000e-005**	**7.0000e-004**	**2.0000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**18.4678**	**18.4678**	**2.2500e-003**	**0.0000**	**18.5242**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0399	0.5848	0.9922	1.4800e-003		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	127.5169	127.5169	0.0302	0.0000	128.2707
Total	**0.0399**	**0.5848**	**0.9922**	**1.4800e-003**		**4.6900e-003**	**4.6900e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**127.5169**	**127.5169**	**0.0302**	**0.0000**	**128.2707**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.1667	0.0364	1.9000e-004	6.6000e-004	4.0000e-005	7.0000e-004	2.0000e-004	4.0000e-005	2.4000e-004	0.0000	18.4678	18.4678	2.2500e-003	0.0000	18.5242
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.2300e-003**	**0.1667**	**0.0364**	**1.9000e-004**	**6.6000e-004**	**4.0000e-005**	**7.0000e-004**	**2.0000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**18.4678**	**18.4678**	**2.2500e-003**	**0.0000**	**18.5242**

3.12 Paving - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.2048	0.3145	4.9000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	43.0570	43.0570	0.0139	0.0000	43.4052
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0213**	**0.2048**	**0.3145**	**4.9000e-004**		**0.0101**	**0.0101**		**9.2700e-003**	**9.2700e-003**	**0.0000**	**43.0570**	**43.0570**	**0.0139**	**0.0000**	**43.4052**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0217	4.7400e-003	2.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.4064	2.4064	2.9000e-004	0.0000	2.4138
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-004**	**0.0217**	**4.7400e-003**	**2.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**2.4064**	**2.4064**	**2.9000e-004**	**0.0000**	**2.4138**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1800e-003	0.2159	0.3719	4.9000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	43.0570	43.0570	0.0139	0.0000	43.4051
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.1800e-003**	**0.2159**	**0.3719**	**4.9000e-004**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**43.0570**	**43.0570**	**0.0139**	**0.0000**	**43.4051**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0217	4.7400e-003	2.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	2.4064	2.4064	2.9000e-004	0.0000	2.4138
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2000e-004**	**0.0217**	**4.7400e-003**	**2.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**2.4064**	**2.4064**	**2.9000e-004**	**0.0000**	**2.4138**

3.13 Architectural Coating - Phases 2 and 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0262	0.0389	6.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	5.4895	5.4895	3.1000e-004	0.0000	5.4972
Total	**1.0103**	**0.0262**	**0.0389**	**6.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**5.4895**	**5.4895**	**3.1000e-004**	**0.0000**	**5.4972**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0434	9.4900e-003	5.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	4.8128	4.8128	5.9000e-004	0.0000	4.8275
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4000e-004**	**0.0434**	**9.4900e-003**	**5.0000e-005**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**5.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**4.8128**	**4.8128**	**5.9000e-004**	**0.0000**	**4.8275**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0064					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8900e-003	0.0262	0.0389	6.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	5.4895	5.4895	3.1000e-004	0.0000	5.4972
Total	**1.0103**	**0.0262**	**0.0389**	**6.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**5.4895**	**5.4895**	**3.1000e-004**	**0.0000**	**5.4972**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0434	9.4900e-003	5.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	4.8128	4.8128	5.9000e-004	0.0000	4.8275
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.4000e-004**	**0.0434**	**9.4900e-003**	**5.0000e-005**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**5.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**4.8128**	**4.8128**	**5.9000e-004**	**0.0000**	**4.8275**

Appendix B

AERMOD Input and HARP2 Output Files

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
1	ALL		369925	3753975	1.83E-08	2.83YrCan	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		369925	3754025	1.87E-08	2.83YrCan	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		369925	3754075	2.22E-08	2.83YrCan	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		369975	3754075	2.14E-08	2.83YrCan	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		370025	3754075	2.28E-08	2.83YrCan	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		369925	3754125	2.31E-08	2.83YrCan	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		369975	3754125	2.51E-08	2.83YrCan	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		370025	3754125	2.59E-08	2.83YrCan	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		370075	3754125	2.61E-08	2.83YrCan	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		370125	3754125	2.87E-08	2.83YrCan	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		370175	3754125	3.19E-08	2.83YrCan	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		370225	3754125	3.57E-08	2.83YrCan	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		370275	3754125	4.01E-08	2.83YrCan	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		370325	3754125	4.56E-08	2.83YrCan	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		370375	3754125	5.28E-08	2.83YrCan	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		370425	3754125	6.08E-08	2.83YrCan	6.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		370475	3754125	7.03E-08	2.83YrCan	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		370525	3754125	8.25E-08	2.83YrCan	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		369925	3754175	2.39E-08	2.83YrCan	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		369975	3754175	2.63E-08	2.83YrCan	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		370025	3754175	2.87E-08	2.83YrCan	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		370075	3754175	2.76E-08	2.83YrCan	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		370125	3754175	3.04E-08	2.83YrCan	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		370175	3754175	3.40E-08	2.83YrCan	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		370225	3754175	3.81E-08	2.83YrCan	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		370275	3754175	4.31E-08	2.83YrCan	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		370375	3754175	5.66E-08	2.83YrCan	5.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		370425	3754175	6.59E-08	2.83YrCan	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		370475	3754175	7.76E-08	2.83YrCan	7.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		370525	3754175	9.35E-08	2.83YrCan	9.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		369975	3754225	2.79E-08	2.83YrCan	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		370025	3754225	3.07E-08	2.83YrCan	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		370075	3754225	3.00E-08	2.83YrCan	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		370125	3754225	3.25E-08	2.83YrCan	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		370175	3754225	3.64E-08	2.83YrCan	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		370225	3754225	4.11E-08	2.83YrCan	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		370375	3754225	6.23E-08	2.83YrCan	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		370425	3754225	7.31E-08	2.83YrCan	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		370475	3754225	8.69E-08	2.83YrCan	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		370525	3754225	1.06E-07	2.83YrCan	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		369975	3754275	3.01E-08	2.83YrCan	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		370025	3754275	3.30E-08	2.83YrCan	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		370075	3754275	3.31E-08	2.83YrCan	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		370125	3754275	3.48E-08	2.83YrCan	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		370225	3754275	4.45E-08	2.83YrCan	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
46	ALL		370375	3754275	6.96E-08	2.83YrCan	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		370425	3754275	8.22E-08	2.83YrCan	8.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		370475	3754275	9.89E-08	2.83YrCan	9.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		370525	3754275	1.21E-07	2.83YrCan	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		370575	3754275	1.54E-07	2.83YrCan	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		370625	3754275	2.05E-07	2.83YrCan	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		370675	3754275	2.90E-07	2.83YrCan	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		370775	3754275	9.29E-07	2.83YrCan	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		370825	3754275	3.07E-06	2.83YrCan	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		369975	3754325	3.21E-08	2.83YrCan	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		370025	3754325	3.40E-08	2.83YrCan	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		370075	3754325	3.45E-08	2.83YrCan	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		370125	3754325	3.69E-08	2.83YrCan	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		370325	3754325	6.44E-08	2.83YrCan	6.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		370375	3754325	7.70E-08	2.83YrCan	7.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		370425	3754325	9.06E-08	2.83YrCan	9.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		370475	3754325	1.11E-07	2.83YrCan	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		370525	3754325	1.37E-07	2.83YrCan	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		370575	3754325	1.77E-07	2.83YrCan	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		370625	3754325	2.38E-07	2.83YrCan	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		370675	3754325	3.39E-07	2.83YrCan	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		370775	3754325	1.08E-06	2.83YrCan	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		370825	3754325	3.64E-06	2.83YrCan	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		369925	3754375	3.03E-08	2.83YrCan	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		369975	3754375	3.27E-08	2.83YrCan	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		370025	3754375	3.18E-08	2.83YrCan	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		370075	3754375	3.44E-08	2.83YrCan	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		370125	3754375	3.83E-08	2.83YrCan	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		370175	3754375	4.33E-08	2.83YrCan	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		370225	3754375	4.95E-08	2.83YrCan	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		370275	3754375	5.72E-08	2.83YrCan	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		370325	3754375	6.72E-08	2.83YrCan	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		370375	3754375	8.05E-08	2.83YrCan	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		370425	3754375	9.59E-08	2.83YrCan	9.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		370475	3754375	1.17E-07	2.83YrCan	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		370525	3754375	1.47E-07	2.83YrCan	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		370575	3754375	1.89E-07	2.83YrCan	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		370625	3754375	2.51E-07	2.83YrCan	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		370675	3754375	3.48E-07	2.83YrCan	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		370775	3754375	8.44E-07	2.83YrCan	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		370825	3754375	1.54E-06	2.83YrCan	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		369925	3754425	3.02E-08	2.83YrCan	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		369975	3754425	3.11E-08	2.83YrCan	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		370025	3754425	3.16E-08	2.83YrCan	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		370075	3754425	3.46E-08	2.83YrCan	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
91	ALL		370125	3754425	3.88E-08	2.83YrCan	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		370175	3754425	4.40E-08	2.83YrCan	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		370225	3754425	5.04E-08	2.83YrCan	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL		370275	3754425	5.83E-08	2.83YrCan	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL		370325	3754425	6.85E-08	2.83YrCan	6.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL		370375	3754425	8.15E-08	2.83YrCan	8.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL		370425	3754425	9.83E-08	2.83YrCan	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL		370475	3754425	1.21E-07	2.83YrCan	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL		370525	3754425	1.50E-07	2.83YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		370575	3754425	1.93E-07	2.83YrCan	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL		370625	3754425	2.55E-07	2.83YrCan	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL		370675	3754425	3.46E-07	2.83YrCan	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		370775	3754425	6.67E-07	2.83YrCan	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL		370825	3754425	8.60E-07	2.83YrCan	8.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL		369925	3754475	2.64E-08	2.83YrCan	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL		369975	3754475	2.84E-08	2.83YrCan	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL		370025	3754475	3.13E-08	2.83YrCan	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL		370075	3754475	3.47E-08	2.83YrCan	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL		370125	3754475	3.90E-08	2.83YrCan	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL		370175	3754475	4.42E-08	2.83YrCan	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL		370225	3754475	5.08E-08	2.83YrCan	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL		370275	3754475	5.88E-08	2.83YrCan	5.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL		370325	3754475	6.90E-08	2.83YrCan	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL		370375	3754475	8.21E-08	2.83YrCan	8.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL		370425	3754475	9.93E-08	2.83YrCan	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL		370475	3754475	1.22E-07	2.83YrCan	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL		370525	3754475	1.52E-07	2.83YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL		370575	3754475	1.96E-07	2.83YrCan	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL		370625	3754475	2.61E-07	2.83YrCan	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL		370675	3754475	3.59E-07	2.83YrCan	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL		370775	3754475	7.38E-07	2.83YrCan	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL		370825	3754475	1.11E-06	2.83YrCan	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL		369925	3754525	2.56E-08	2.83YrCan	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL		369975	3754525	2.80E-08	2.83YrCan	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL		370025	3754525	3.11E-08	2.83YrCan	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		370075	3754525	3.47E-08	2.83YrCan	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		370125	3754525	3.89E-08	2.83YrCan	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL		370175	3754525	4.42E-08	2.83YrCan	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL		370225	3754525	5.08E-08	2.83YrCan	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL		370275	3754525	5.89E-08	2.83YrCan	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL		370325	3754525	6.91E-08	2.83YrCan	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL		370375	3754525	8.23E-08	2.83YrCan	8.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL		370425	3754525	9.96E-08	2.83YrCan	9.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL		370475	3754525	1.23E-07	2.83YrCan	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL		370525	3754525	1.55E-07	2.83YrCan	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
136	ALL		370575	3754525	2.01E-07	2.83YrCan	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL		370625	3754525	2.72E-07	2.83YrCan	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL		370675	3754525	3.84E-07	2.83YrCan	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL		370775	3754525	1.00E-06	2.83YrCan	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL		370825	3754525	2.38E-06	2.83YrCan	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL		369925	3754575	2.53E-08	2.83YrCan	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		369975	3754575	2.79E-08	2.83YrCan	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL		370025	3754575	3.10E-08	2.83YrCan	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL		370075	3754575	3.45E-08	2.83YrCan	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL		370125	3754575	3.87E-08	2.83YrCan	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL		370175	3754575	4.39E-08	2.83YrCan	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL		370225	3754575	5.05E-08	2.83YrCan	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL		370275	3754575	5.86E-08	2.83YrCan	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL		370325	3754575	6.87E-08	2.83YrCan	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL		370375	3754575	8.19E-08	2.83YrCan	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL		370425	3754575	9.93E-08	2.83YrCan	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL		370475	3754575	1.23E-07	2.83YrCan	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL		370525	3754575	1.57E-07	2.83YrCan	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL		370575	3754575	2.06E-07	2.83YrCan	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL		370625	3754575	2.82E-07	2.83YrCan	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL		370675	3754575	4.12E-07	2.83YrCan	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL		370775	3754575	1.29E-06	2.83YrCan	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		370825	3754575	3.35E-06	2.83YrCan	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL		369925	3754625	2.52E-08	2.83YrCan	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL		369975	3754625	2.77E-08	2.83YrCan	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL		370025	3754625	3.07E-08	2.83YrCan	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL		370075	3754625	3.42E-08	2.83YrCan	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL		370125	3754625	3.84E-08	2.83YrCan	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL		370275	3754625	5.76E-08	2.83YrCan	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL		370325	3754625	6.76E-08	2.83YrCan	6.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL		370375	3754625	8.04E-08	2.83YrCan	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL		370425	3754625	9.74E-08	2.83YrCan	9.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL		370475	3754625	1.21E-07	2.83YrCan	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL		370525	3754625	1.54E-07	2.83YrCan	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL		370575	3754625	2.02E-07	2.83YrCan	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL		370625	3754625	2.80E-07	2.83YrCan	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL		370675	3754625	4.16E-07	2.83YrCan	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL		370775	3754625	1.43E-06	2.83YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL		370825	3754625	4.23E-06	2.83YrCan	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL		369925	3754675	2.50E-08	2.83YrCan	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL		369975	3754675	2.73E-08	2.83YrCan	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL		370025	3754675	3.01E-08	2.83YrCan	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL		370075	3754675	3.35E-08	2.83YrCan	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL		370125	3754675	3.76E-08	2.83YrCan	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL		370225	3754675	4.85E-08	2.83YrCan	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
181	ALL		370275	3754675	5.60E-08	2.83YrCan	5.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL		370375	3754675	7.76E-08	2.83YrCan	7.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL		370425	3754675	9.34E-08	2.83YrCan	9.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL		370475	3754675	1.15E-07	2.83YrCan	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL		370525	3754675	1.45E-07	2.83YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL		370575	3754675	1.89E-07	2.83YrCan	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL		370625	3754675	2.60E-07	2.83YrCan	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL		370675	3754675	3.82E-07	2.83YrCan	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL		370775	3754675	1.20E-06	2.83YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL		370825	3754675	3.32E-06	2.83YrCan	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL		369925	3754725	2.45E-08	2.83YrCan	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL		369975	3754725	2.67E-08	2.83YrCan	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL		370025	3754725	2.94E-08	2.83YrCan	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL		370075	3754725	3.26E-08	2.83YrCan	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL		370125	3754725	3.64E-08	2.83YrCan	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL		370175	3754725	4.10E-08	2.83YrCan	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL		370225	3754725	4.67E-08	2.83YrCan	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL		370275	3754725	5.37E-08	2.83YrCan	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL		370375	3754725	7.36E-08	2.83YrCan	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL		370425	3754725	8.75E-08	2.83YrCan	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL		370475	3754725	1.06E-07	2.83YrCan	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL		370525	3754725	1.31E-07	2.83YrCan	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL		370575	3754725	1.68E-07	2.83YrCan	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL		370625	3754725	2.25E-07	2.83YrCan	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL		370675	3754725	3.17E-07	2.83YrCan	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL		370775	3754725	7.91E-07	2.83YrCan	7.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL		370825	3754725	1.55E-06	2.83YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL		369925	3754775	2.37E-08	2.83YrCan	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL		369975	3754775	2.58E-08	2.83YrCan	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL		370025	3754775	2.83E-08	2.83YrCan	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL		370075	3754775	3.13E-08	2.83YrCan	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL		370125	3754775	3.49E-08	2.83YrCan	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL		370175	3754775	3.92E-08	2.83YrCan	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL		370225	3754775	4.44E-08	2.83YrCan	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL		370275	3754775	5.07E-08	2.83YrCan	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL		370425	3754775	8.00E-08	2.83YrCan	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL		370475	3754775	9.49E-08	2.83YrCan	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL		370525	3754775	1.15E-07	2.83YrCan	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL		370575	3754775	1.43E-07	2.83YrCan	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL		370625	3754775	1.83E-07	2.83YrCan	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL		370675	3754775	2.42E-07	2.83YrCan	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL		370775	3754775	4.34E-07	2.83YrCan	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL		370825	3754775	5.34E-07	2.83YrCan	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL		370875	3754775	5.49E-07	2.83YrCan	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL		369925	3754825	2.28E-08	2.83YrCan	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
226	ALL		369975	3754825	2.48E-08	2.83YrCan	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL		370025	3754825	2.71E-08	2.83YrCan	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL		370075	3754825	2.99E-08	2.83YrCan	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL		370125	3754825	3.30E-08	2.83YrCan	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL		370425	3754825	7.13E-08	2.83YrCan	7.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL		370475	3754825	8.37E-08	2.83YrCan	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL		370525	3754825	9.90E-08	2.83YrCan	9.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL		370575	3754825	1.19E-07	2.83YrCan	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL		370625	3754825	1.45E-07	2.83YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL		370675	3754825	1.78E-07	2.83YrCan	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL		370775	3754825	2.45E-07	2.83YrCan	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL		370825	3754825	2.66E-07	2.83YrCan	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL		370875	3754825	2.66E-07	2.83YrCan	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL		369925	3754875	2.18E-08	2.83YrCan	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL		369975	3754875	2.36E-08	2.83YrCan	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL		370025	3754875	2.58E-08	2.83YrCan	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL		370075	3754875	2.84E-08	2.83YrCan	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL		370125	3754875	3.11E-08	2.83YrCan	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL		370175	3754875	3.44E-08	2.83YrCan	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL		370225	3754875	3.83E-08	2.83YrCan	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL		370275	3754875	4.30E-08	2.83YrCan	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL		370325	3754875	4.87E-08	2.83YrCan	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL		370375	3754875	5.48E-08	2.83YrCan	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL		370425	3754875	6.24E-08	2.83YrCan	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL		370475	3754875	7.22E-08	2.83YrCan	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL		370525	3754875	8.37E-08	2.83YrCan	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL		370575	3754875	9.72E-08	2.83YrCan	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL		370625	3754875	1.13E-07	2.83YrCan	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL		370675	3754875	1.30E-07	2.83YrCan	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL		370775	3754875	1.56E-07	2.83YrCan	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL		370825	3754875	1.62E-07	2.83YrCan	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL		370875	3754875	1.59E-07	2.83YrCan	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL		369925	3754925	2.13E-08	2.83YrCan	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL		369975	3754925	2.23E-08	2.83YrCan	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL		370025	3754925	2.45E-08	2.83YrCan	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL		370075	3754925	2.67E-08	2.83YrCan	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL		370125	3754925	2.92E-08	2.83YrCan	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL		370175	3754925	3.20E-08	2.83YrCan	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL		370225	3754925	3.53E-08	2.83YrCan	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL		370275	3754925	3.90E-08	2.83YrCan	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL		370325	3754925	4.36E-08	2.83YrCan	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL		370375	3754925	4.88E-08	2.83YrCan	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL		370425	3754925	5.48E-08	2.83YrCan	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL		370475	3754925	6.19E-08	2.83YrCan	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL		370525	3754925	6.99E-08	2.83YrCan	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
271	ALL		370575	3754925	7.88E-08	2.83YrCan	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL		370625	3754925	8.80E-08	2.83YrCan	8.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL		370675	3754925	9.68E-08	2.83YrCan	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL		370775	3754925	1.09E-07	2.83YrCan	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL		370825	3754925	1.10E-07	2.83YrCan	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL		370875	3754925	1.07E-07	2.83YrCan	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL		369925	3754975	2.07E-08	2.83YrCan	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL		369975	3754975	2.13E-08	2.83YrCan	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL		370025	3754975	2.30E-08	2.83YrCan	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL		370075	3754975	2.51E-08	2.83YrCan	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL		370125	3754975	2.72E-08	2.83YrCan	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL		370175	3754975	2.96E-08	2.83YrCan	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL		370225	3754975	3.23E-08	2.83YrCan	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL		370275	3754975	3.54E-08	2.83YrCan	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL		370325	3754975	3.90E-08	2.83YrCan	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL		370375	3754975	4.31E-08	2.83YrCan	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL		370425	3754975	4.76E-08	2.83YrCan	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL		370475	3754975	5.28E-08	2.83YrCan	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL		370525	3754975	5.82E-08	2.83YrCan	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL		370575	3754975	6.34E-08	2.83YrCan	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL		370625	3754975	6.88E-08	2.83YrCan	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL		370675	3754975	7.36E-08	2.83YrCan	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL		370775	3754975	7.91E-08	2.83YrCan	7.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL		370825	3754975	7.90E-08	2.83YrCan	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL		370875	3754975	7.67E-08	2.83YrCan	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL		369925	3755025	1.87E-08	2.83YrCan	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL		369975	3755025	2.01E-08	2.83YrCan	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL		370025	3755025	2.15E-08	2.83YrCan	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL		370075	3755025	2.34E-08	2.83YrCan	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL		370125	3755025	2.52E-08	2.83YrCan	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL		370175	3755025	2.72E-08	2.83YrCan	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL		370225	3755025	2.95E-08	2.83YrCan	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL		370275	3755025	3.20E-08	2.83YrCan	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL		370325	3755025	3.48E-08	2.83YrCan	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL		370375	3755025	3.80E-08	2.83YrCan	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL		370425	3755025	4.14E-08	2.83YrCan	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL		370475	3755025	4.50E-08	2.83YrCan	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL		370525	3755025	4.87E-08	2.83YrCan	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL		370575	3755025	5.18E-08	2.83YrCan	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL		370625	3755025	5.48E-08	2.83YrCan	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL		370675	3755025	5.74E-08	2.83YrCan	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL		370775	3755025	5.91E-08	2.83YrCan	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL		370825	3755025	5.79E-08	2.83YrCan	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL		370875	3755025	5.68E-08	2.83YrCan	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL		369925	3755075	1.77E-08	2.83YrCan	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
316	ALL		369975	3755075	1.89E-08	2.83YrCan	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL		370025	3755075	2.02E-08	2.83YrCan	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL		370075	3755075	2.17E-08	2.83YrCan	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL		370125	3755075	2.32E-08	2.83YrCan	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL		370175	3755075	2.48E-08	2.83YrCan	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL		370225	3755075	2.67E-08	2.83YrCan	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL		370275	3755075	2.88E-08	2.83YrCan	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL		370325	3755075	3.10E-08	2.83YrCan	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL		370375	3755075	3.34E-08	2.83YrCan	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL		370425	3755075	3.60E-08	2.83YrCan	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL		370475	3755075	3.85E-08	2.83YrCan	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL		370525	3755075	4.08E-08	2.83YrCan	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL		370575	3755075	4.29E-08	2.83YrCan	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL		370625	3755075	4.47E-08	2.83YrCan	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL		370675	3755075	4.60E-08	2.83YrCan	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL		369925	3755125	1.66E-08	2.83YrCan	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL		369975	3755125	1.76E-08	2.83YrCan	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL		370025	3755125	1.89E-08	2.83YrCan	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL		370075	3755125	2.01E-08	2.83YrCan	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL		370125	3755125	2.13E-08	2.83YrCan	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL		370175	3755125	2.27E-08	2.83YrCan	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL		370225	3755125	2.42E-08	2.83YrCan	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL		370275	3755125	2.59E-08	2.83YrCan	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL		370325	3755125	2.77E-08	2.83YrCan	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL		370375	3755125	2.95E-08	2.83YrCan	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL		370425	3755125	3.13E-08	2.83YrCan	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL		370475	3755125	3.31E-08	2.83YrCan	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL		370525	3755125	3.45E-08	2.83YrCan	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL		370575	3755125	3.59E-08	2.83YrCan	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL		370625	3755125	3.70E-08	2.83YrCan	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL		370675	3755125	3.77E-08	2.83YrCan	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL		369925	3755175	1.56E-08	2.83YrCan	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL		369975	3755175	1.65E-08	2.83YrCan	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL		370025	3755175	1.76E-08	2.83YrCan	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL		370075	3755175	1.86E-08	2.83YrCan	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL		370125	3755175	1.97E-08	2.83YrCan	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL		370175	3755175	2.08E-08	2.83YrCan	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL		370225	3755175	2.20E-08	2.83YrCan	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL		370275	3755175	2.33E-08	2.83YrCan	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL		370325	3755175	2.47E-08	2.83YrCan	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL		370375	3755175	2.61E-08	2.83YrCan	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL		370425	3755175	2.74E-08	2.83YrCan	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL		370475	3755175	2.86E-08	2.83YrCan	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL		370525	3755175	2.96E-08	2.83YrCan	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL		370575	3755175	3.05E-08	2.83YrCan	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
361	ALL		370625	3755175	3.12E-08	2.83YrCan	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL		370675	3755175	3.15E-08	2.83YrCan	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL		369925	3755225	1.47E-08	2.83YrCan	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL		369975	3755225	1.54E-08	2.83YrCan	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL		370025	3755225	1.63E-08	2.83YrCan	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL		370075	3755225	1.72E-08	2.83YrCan	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL		370125	3755225	1.81E-08	2.83YrCan	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL		370175	3755225	1.90E-08	2.83YrCan	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL		370225	3755225	2.00E-08	2.83YrCan	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL		370275	3755225	2.10E-08	2.83YrCan	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL		370325	3755225	2.21E-08	2.83YrCan	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL		370375	3755225	2.31E-08	2.83YrCan	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL		370425	3755225	2.41E-08	2.83YrCan	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL		370475	3755225	2.49E-08	2.83YrCan	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL		370525	3755225	2.56E-08	2.83YrCan	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL		370575	3755225	2.61E-08	2.83YrCan	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL		370625	3755225	2.65E-08	2.83YrCan	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL		369925	3755275	1.38E-08	2.83YrCan	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL		369975	3755275	1.45E-08	2.83YrCan	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL		370025	3755275	1.52E-08	2.83YrCan	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL		370075	3755275	1.59E-08	2.83YrCan	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL		370125	3755275	1.66E-08	2.83YrCan	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL		370175	3755275	1.74E-08	2.83YrCan	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL		370225	3755275	1.82E-08	2.83YrCan	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL		370275	3755275	1.90E-08	2.83YrCan	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL		370325	3755275	1.98E-08	2.83YrCan	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL		370375	3755275	2.06E-08	2.83YrCan	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL		370425	3755275	2.12E-08	2.83YrCan	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL		370475	3755275	2.18E-08	2.83YrCan	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL		370525	3755275	2.23E-08	2.83YrCan	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL		370575	3755275	2.27E-08	2.83YrCan	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL		370625	3755275	2.29E-08	2.83YrCan	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL		369925	3755325	1.30E-08	2.83YrCan	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL		369975	3755325	1.36E-08	2.83YrCan	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL		370025	3755325	1.42E-08	2.83YrCan	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL		370075	3755325	1.47E-08	2.83YrCan	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL		370125	3755325	1.53E-08	2.83YrCan	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL		370175	3755325	1.59E-08	2.83YrCan	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL		370225	3755325	1.66E-08	2.83YrCan	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL		370275	3755325	1.72E-08	2.83YrCan	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL		369925	3755375	1.22E-08	2.83YrCan	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL		369975	3755375	1.27E-08	2.83YrCan	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL		370025	3755375	1.32E-08	2.83YrCan	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL		370075	3755375	1.36E-08	2.83YrCan	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL		370125	3755375	1.41E-08	2.83YrCan	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:48:51 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_2.83yrCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
406	ALL		370175	3755375	1.46E-08	2.83YrCan	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL		370225	3755375	1.52E-08	2.83YrCan	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL		370275	3755375	1.57E-08	2.83YrCan	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_E	EGG_RISK
1	ALL		369925	3753975	1.81E-07	2.83YrCan	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		369925	3754025	1.86E-07	2.83YrCan	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		369925	3754075	2.19E-07	2.83YrCan	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		369975	3754075	2.12E-07	2.83YrCan	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		370025	3754075	2.25E-07	2.83YrCan	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		369925	3754125	2.29E-07	2.83YrCan	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		369975	3754125	2.49E-07	2.83YrCan	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		370025	3754125	2.56E-07	2.83YrCan	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		370075	3754125	2.58E-07	2.83YrCan	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		370125	3754125	2.84E-07	2.83YrCan	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		370175	3754125	3.16E-07	2.83YrCan	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		370225	3754125	3.53E-07	2.83YrCan	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		370275	3754125	3.97E-07	2.83YrCan	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		370325	3754125	4.52E-07	2.83YrCan	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		370375	3754125	5.22E-07	2.83YrCan	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		370425	3754125	6.02E-07	2.83YrCan	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		370475	3754125	6.96E-07	2.83YrCan	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		370525	3754125	8.17E-07	2.83YrCan	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		369925	3754175	2.37E-07	2.83YrCan	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		369975	3754175	2.60E-07	2.83YrCan	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		370025	3754175	2.84E-07	2.83YrCan	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		370075	3754175	2.73E-07	2.83YrCan	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		370125	3754175	3.01E-07	2.83YrCan	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		370175	3754175	3.36E-07	2.83YrCan	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		370225	3754175	3.77E-07	2.83YrCan	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		370275	3754175	4.27E-07	2.83YrCan	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		370375	3754175	5.61E-07	2.83YrCan	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		370425	3754175	6.52E-07	2.83YrCan	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		370475	3754175	7.68E-07	2.83YrCan	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		370525	3754175	9.26E-07	2.83YrCan	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		369975	3754225	2.76E-07	2.83YrCan	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		370025	3754225	3.04E-07	2.83YrCan	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		370075	3754225	2.97E-07	2.83YrCan	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		370125	3754225	3.22E-07	2.83YrCan	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		370175	3754225	3.61E-07	2.83YrCan	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		370225	3754225	4.07E-07	2.83YrCan	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		370375	3754225	6.17E-07	2.83YrCan	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		370425	3754225	7.24E-07	2.83YrCan	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		370475	3754225	8.61E-07	2.83YrCan	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		370525	3754225	1.05E-06	2.83YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		369975	3754275	2.98E-07	2.83YrCan	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		370025	3754275	3.27E-07	2.83YrCan	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		370075	3754275	3.28E-07	2.83YrCan	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		370125	3754275	3.45E-07	2.83YrCan	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		370225	3754275	4.41E-07	2.83YrCan	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
46	ALL		370375	3754275	6.89E-07	2.83YrCan	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		370425	3754275	8.14E-07	2.83YrCan	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		370475	3754275	9.79E-07	2.83YrCan	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		370525	3754275	1.20E-06	2.83YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		370575	3754275	1.53E-06	2.83YrCan	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		370625	3754275	2.03E-06	2.83YrCan	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		370675	3754275	2.87E-06	2.83YrCan	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		370775	3754275	9.19E-06	2.83YrCan	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		370825	3754275	3.04E-05	2.83YrCan	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		369975	3754325	3.17E-07	2.83YrCan	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		370025	3754325	3.37E-07	2.83YrCan	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		370075	3754325	3.42E-07	2.83YrCan	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		370125	3754325	3.66E-07	2.83YrCan	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		370325	3754325	6.37E-07	2.83YrCan	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		370375	3754325	7.62E-07	2.83YrCan	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		370425	3754325	8.97E-07	2.83YrCan	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		370475	3754325	1.09E-06	2.83YrCan	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		370525	3754325	1.36E-06	2.83YrCan	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		370575	3754325	1.75E-06	2.83YrCan	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		370625	3754325	2.35E-06	2.83YrCan	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		370675	3754325	3.35E-06	2.83YrCan	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		370775	3754325	1.07E-05	2.83YrCan	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		370825	3754325	3.60E-05	2.83YrCan	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		369925	3754375	3.00E-07	2.83YrCan	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		369975	3754375	3.23E-07	2.83YrCan	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		370025	3754375	3.15E-07	2.83YrCan	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		370075	3754375	3.41E-07	2.83YrCan	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		370125	3754375	3.79E-07	2.83YrCan	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		370175	3754375	4.28E-07	2.83YrCan	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		370225	3754375	4.90E-07	2.83YrCan	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		370275	3754375	5.66E-07	2.83YrCan	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		370325	3754375	6.66E-07	2.83YrCan	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		370375	3754375	7.97E-07	2.83YrCan	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		370425	3754375	9.50E-07	2.83YrCan	9.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		370475	3754375	1.16E-06	2.83YrCan	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		370525	3754375	1.45E-06	2.83YrCan	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		370575	3754375	1.87E-06	2.83YrCan	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		370625	3754375	2.49E-06	2.83YrCan	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		370675	3754375	3.44E-06	2.83YrCan	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		370775	3754375	8.35E-06	2.83YrCan	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		370825	3754375	1.53E-05	2.83YrCan	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		369925	3754425	2.99E-07	2.83YrCan	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		369975	3754425	3.08E-07	2.83YrCan	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		370025	3754425	3.13E-07	2.83YrCan	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		370075	3754425	3.42E-07	2.83YrCan	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:16:06 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_2.83yrCancerUnmitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
91	ALL		370125	3754425	3.85E-07	2.83YrCan	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		370175	3754425	4.36E-07	2.83YrCan	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		370225	3754425	4.99E-07	2.83YrCan	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL		370275	3754425	5.77E-07	2.83YrCan	5.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL		370325	3754425	6.78E-07	2.83YrCan	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL		370375	3754425	8.06E-07	2.83YrCan	8.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL		370425	3754425	9.74E-07	2.83YrCan	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL		370475	3754425	1.19E-06	2.83YrCan	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL		370525	3754425	1.49E-06	2.83YrCan	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		370575	3754425	1.91E-06	2.83YrCan	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL		370625	3754425	2.53E-06	2.83YrCan	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL		370675	3754425	3.43E-06	2.83YrCan	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		370775	3754425	6.60E-06	2.83YrCan	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL		370825	3754425	8.51E-06	2.83YrCan	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL		369925	3754475	2.62E-07	2.83YrCan	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL		369975	3754475	2.81E-07	2.83YrCan	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL		370025	3754475	3.09E-07	2.83YrCan	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL		370075	3754475	3.44E-07	2.83YrCan	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL		370125	3754475	3.86E-07	2.83YrCan	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL		370175	3754475	4.38E-07	2.83YrCan	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL		370225	3754475	5.02E-07	2.83YrCan	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL		370275	3754475	5.82E-07	2.83YrCan	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL		370325	3754475	6.83E-07	2.83YrCan	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL		370375	3754475	8.13E-07	2.83YrCan	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL		370425	3754475	9.82E-07	2.83YrCan	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL		370475	3754475	1.21E-06	2.83YrCan	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL		370525	3754475	1.51E-06	2.83YrCan	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL		370575	3754475	1.94E-06	2.83YrCan	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL		370625	3754475	2.59E-06	2.83YrCan	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL		370675	3754475	3.55E-06	2.83YrCan	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL		370775	3754475	7.30E-06	2.83YrCan	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL		370825	3754475	1.10E-05	2.83YrCan	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL		369925	3754525	2.53E-07	2.83YrCan	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL		369975	3754525	2.77E-07	2.83YrCan	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL		370025	3754525	3.08E-07	2.83YrCan	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL		370075	3754525	3.44E-07	2.83YrCan	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL		370125	3754525	3.86E-07	2.83YrCan	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL		370175	3754525	4.38E-07	2.83YrCan	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL		370225	3754525	5.03E-07	2.83YrCan	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL		370275	3754525	5.83E-07	2.83YrCan	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL		370325	3754525	6.84E-07	2.83YrCan	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL		370375	3754525	8.15E-07	2.83YrCan	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL		370425	3754525	9.86E-07	2.83YrCan	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL		370475	3754525	1.22E-06	2.83YrCan	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL		370525	3754525	1.53E-06	2.83YrCan	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
136	ALL		370575	3754525	1.99E-06	2.83YrCan	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL		370625	3754525	2.69E-06	2.83YrCan	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL		370675	3754525	3.81E-06	2.83YrCan	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL		370775	3754525	9.92E-06	2.83YrCan	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL		370825	3754525	2.35E-05	2.83YrCan	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL		369925	3754575	2.51E-07	2.83YrCan	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		369975	3754575	2.76E-07	2.83YrCan	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL		370025	3754575	3.06E-07	2.83YrCan	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL		370075	3754575	3.42E-07	2.83YrCan	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL		370125	3754575	3.83E-07	2.83YrCan	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL		370175	3754575	4.35E-07	2.83YrCan	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL		370225	3754575	5.00E-07	2.83YrCan	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL		370275	3754575	5.80E-07	2.83YrCan	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL		370325	3754575	6.80E-07	2.83YrCan	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL		370375	3754575	8.10E-07	2.83YrCan	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL		370425	3754575	9.83E-07	2.83YrCan	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL		370475	3754575	1.22E-06	2.83YrCan	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL		370525	3754575	1.55E-06	2.83YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL		370575	3754575	2.04E-06	2.83YrCan	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL		370625	3754575	2.79E-06	2.83YrCan	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL		370675	3754575	4.07E-06	2.83YrCan	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL		370775	3754575	1.28E-05	2.83YrCan	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		370825	3754575	3.32E-05	2.83YrCan	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL		369925	3754625	2.49E-07	2.83YrCan	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL		369975	3754625	2.74E-07	2.83YrCan	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL		370025	3754625	3.04E-07	2.83YrCan	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL		370075	3754625	3.39E-07	2.83YrCan	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL		370125	3754625	3.80E-07	2.83YrCan	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL		370275	3754625	5.70E-07	2.83YrCan	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL		370325	3754625	6.69E-07	2.83YrCan	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL		370375	3754625	7.96E-07	2.83YrCan	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL		370425	3754625	9.64E-07	2.83YrCan	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL		370475	3754625	1.20E-06	2.83YrCan	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL		370525	3754625	1.52E-06	2.83YrCan	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL		370575	3754625	2.00E-06	2.83YrCan	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL		370625	3754625	2.77E-06	2.83YrCan	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL		370675	3754625	4.12E-06	2.83YrCan	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL		370775	3754625	1.41E-05	2.83YrCan	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL		370825	3754625	4.18E-05	2.83YrCan	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL		369925	3754675	2.47E-07	2.83YrCan	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL		369975	3754675	2.70E-07	2.83YrCan	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL		370025	3754675	2.98E-07	2.83YrCan	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL		370075	3754675	3.32E-07	2.83YrCan	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL		370125	3754675	3.72E-07	2.83YrCan	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL		370225	3754675	4.80E-07	2.83YrCan	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
181	ALL		370275	3754675	5.54E-07	2.83YrCan	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL		370375	3754675	7.68E-07	2.83YrCan	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL		370425	3754675	9.24E-07	2.83YrCan	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL		370475	3754675	1.14E-06	2.83YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL		370525	3754675	1.43E-06	2.83YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL		370575	3754675	1.88E-06	2.83YrCan	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL		370625	3754675	2.57E-06	2.83YrCan	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL		370675	3754675	3.78E-06	2.83YrCan	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL		370775	3754675	1.19E-05	2.83YrCan	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL		370825	3754675	3.29E-05	2.83YrCan	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL		369925	3754725	2.42E-07	2.83YrCan	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL		369975	3754725	2.64E-07	2.83YrCan	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL		370025	3754725	2.91E-07	2.83YrCan	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL		370075	3754725	3.22E-07	2.83YrCan	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL		370125	3754725	3.60E-07	2.83YrCan	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL		370175	3754725	4.06E-07	2.83YrCan	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL		370225	3754725	4.62E-07	2.83YrCan	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL		370275	3754725	5.32E-07	2.83YrCan	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL		370375	3754725	7.28E-07	2.83YrCan	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL		370425	3754725	8.66E-07	2.83YrCan	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL		370475	3754725	1.05E-06	2.83YrCan	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL		370525	3754725	1.30E-06	2.83YrCan	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL		370575	3754725	1.66E-06	2.83YrCan	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL		370625	3754725	2.22E-06	2.83YrCan	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL		370675	3754725	3.13E-06	2.83YrCan	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL		370775	3754725	7.83E-06	2.83YrCan	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL		370825	3754725	1.53E-05	2.83YrCan	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL		369925	3754775	2.35E-07	2.83YrCan	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL		369975	3754775	2.56E-07	2.83YrCan	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL		370025	3754775	2.81E-07	2.83YrCan	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL		370075	3754775	3.10E-07	2.83YrCan	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL		370125	3754775	3.45E-07	2.83YrCan	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL		370175	3754775	3.88E-07	2.83YrCan	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL		370225	3754775	4.39E-07	2.83YrCan	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL		370275	3754775	5.02E-07	2.83YrCan	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL		370425	3754775	7.92E-07	2.83YrCan	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL		370475	3754775	9.39E-07	2.83YrCan	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL		370525	3754775	1.14E-06	2.83YrCan	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL		370575	3754775	1.42E-06	2.83YrCan	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL		370625	3754775	1.82E-06	2.83YrCan	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL		370675	3754775	2.39E-06	2.83YrCan	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL		370775	3754775	4.30E-06	2.83YrCan	4.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL		370825	3754775	5.29E-06	2.83YrCan	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL		370875	3754775	5.44E-06	2.83YrCan	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL		369925	3754825	2.25E-07	2.83YrCan	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:16:06 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_2.83yrCancerUnmitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_E	EGG_RISK
226	ALL		369975	3754825	2.45E-07	2.83YrCan	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL		370025	3754825	2.69E-07	2.83YrCan	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL		370075	3754825	2.96E-07	2.83YrCan	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL		370125	3754825	3.27E-07	2.83YrCan	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL		370425	3754825	7.06E-07	2.83YrCan	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL		370475	3754825	8.28E-07	2.83YrCan	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL		370525	3754825	9.80E-07	2.83YrCan	9.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL		370575	3754825	1.18E-06	2.83YrCan	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL		370625	3754825	1.43E-06	2.83YrCan	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL		370675	3754825	1.76E-06	2.83YrCan	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL		370775	3754825	2.43E-06	2.83YrCan	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL		370825	3754825	2.63E-06	2.83YrCan	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL		370875	3754825	2.63E-06	2.83YrCan	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL		369925	3754875	2.16E-07	2.83YrCan	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL		369975	3754875	2.34E-07	2.83YrCan	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL		370025	3754875	2.56E-07	2.83YrCan	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL		370075	3754875	2.81E-07	2.83YrCan	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL		370125	3754875	3.08E-07	2.83YrCan	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL		370175	3754875	3.41E-07	2.83YrCan	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL		370225	3754875	3.80E-07	2.83YrCan	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL		370275	3754875	4.25E-07	2.83YrCan	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL		370325	3754875	4.82E-07	2.83YrCan	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL		370375	3754875	5.42E-07	2.83YrCan	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL		370425	3754875	6.18E-07	2.83YrCan	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL		370475	3754875	7.15E-07	2.83YrCan	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL		370525	3754875	8.28E-07	2.83YrCan	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL		370575	3754875	9.62E-07	2.83YrCan	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL		370625	3754875	1.12E-06	2.83YrCan	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL		370675	3754875	1.29E-06	2.83YrCan	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL		370775	3754875	1.55E-06	2.83YrCan	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL		370825	3754875	1.60E-06	2.83YrCan	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL		370875	3754875	1.58E-06	2.83YrCan	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL		369925	3754925	2.11E-07	2.83YrCan	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL		369975	3754925	2.21E-07	2.83YrCan	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL		370025	3754925	2.42E-07	2.83YrCan	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL		370075	3754925	2.65E-07	2.83YrCan	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL		370125	3754925	2.89E-07	2.83YrCan	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL		370175	3754925	3.17E-07	2.83YrCan	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL		370225	3754925	3.49E-07	2.83YrCan	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL		370275	3754925	3.87E-07	2.83YrCan	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL		370325	3754925	4.32E-07	2.83YrCan	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL		370375	3754925	4.83E-07	2.83YrCan	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL		370425	3754925	5.43E-07	2.83YrCan	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL		370475	3754925	6.12E-07	2.83YrCan	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL		370525	3754925	6.92E-07	2.83YrCan	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
271	ALL		370575	3754925	7.80E-07	2.83YrCan	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL		370625	3754925	8.71E-07	2.83YrCan	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL		370675	3754925	9.58E-07	2.83YrCan	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL		370775	3754925	1.08E-06	2.83YrCan	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL		370825	3754925	1.09E-06	2.83YrCan	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL		370875	3754925	1.06E-06	2.83YrCan	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL		369925	3754975	2.05E-07	2.83YrCan	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL		369975	3754975	2.11E-07	2.83YrCan	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL		370025	3754975	2.28E-07	2.83YrCan	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL		370075	3754975	2.48E-07	2.83YrCan	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL		370125	3754975	2.69E-07	2.83YrCan	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL		370175	3754975	2.93E-07	2.83YrCan	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL		370225	3754975	3.20E-07	2.83YrCan	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL		370275	3754975	3.51E-07	2.83YrCan	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL		370325	3754975	3.86E-07	2.83YrCan	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL		370375	3754975	4.26E-07	2.83YrCan	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL		370425	3754975	4.72E-07	2.83YrCan	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL		370475	3754975	5.23E-07	2.83YrCan	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL		370525	3754975	5.76E-07	2.83YrCan	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL		370575	3754975	6.28E-07	2.83YrCan	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL		370625	3754975	6.81E-07	2.83YrCan	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL		370675	3754975	7.28E-07	2.83YrCan	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL		370775	3754975	7.83E-07	2.83YrCan	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL		370825	3754975	7.82E-07	2.83YrCan	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL		370875	3754975	7.60E-07	2.83YrCan	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL		369925	3755025	1.85E-07	2.83YrCan	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL		369975	3755025	1.99E-07	2.83YrCan	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL		370025	3755025	2.13E-07	2.83YrCan	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL		370075	3755025	2.31E-07	2.83YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL		370125	3755025	2.49E-07	2.83YrCan	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL		370175	3755025	2.69E-07	2.83YrCan	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL		370225	3755025	2.92E-07	2.83YrCan	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL		370275	3755025	3.17E-07	2.83YrCan	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL		370325	3755025	3.45E-07	2.83YrCan	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL		370375	3755025	3.76E-07	2.83YrCan	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL		370425	3755025	4.09E-07	2.83YrCan	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL		370475	3755025	4.46E-07	2.83YrCan	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL		370525	3755025	4.82E-07	2.83YrCan	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL		370575	3755025	5.13E-07	2.83YrCan	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL		370625	3755025	5.43E-07	2.83YrCan	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL		370675	3755025	5.68E-07	2.83YrCan	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL		370775	3755025	5.85E-07	2.83YrCan	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL		370825	3755025	5.73E-07	2.83YrCan	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL		370875	3755025	5.63E-07	2.83YrCan	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL		369925	3755075	1.75E-07	2.83YrCan	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
316	ALL		369975	3755075	1.87E-07	2.83YrCan	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL		370025	3755075	2.00E-07	2.83YrCan	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL		370075	3755075	2.15E-07	2.83YrCan	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL		370125	3755075	2.30E-07	2.83YrCan	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL		370175	3755075	2.46E-07	2.83YrCan	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL		370225	3755075	2.65E-07	2.83YrCan	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL		370275	3755075	2.85E-07	2.83YrCan	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL		370325	3755075	3.07E-07	2.83YrCan	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL		370375	3755075	3.31E-07	2.83YrCan	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL		370425	3755075	3.56E-07	2.83YrCan	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL		370475	3755075	3.81E-07	2.83YrCan	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL		370525	3755075	4.04E-07	2.83YrCan	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL		370575	3755075	4.25E-07	2.83YrCan	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL		370625	3755075	4.42E-07	2.83YrCan	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL		370675	3755075	4.56E-07	2.83YrCan	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL		369925	3755125	1.65E-07	2.83YrCan	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL		369975	3755125	1.74E-07	2.83YrCan	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL		370025	3755125	1.87E-07	2.83YrCan	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL		370075	3755125	1.99E-07	2.83YrCan	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL		370125	3755125	2.11E-07	2.83YrCan	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL		370175	3755125	2.25E-07	2.83YrCan	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL		370225	3755125	2.40E-07	2.83YrCan	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL		370275	3755125	2.57E-07	2.83YrCan	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL		370325	3755125	2.74E-07	2.83YrCan	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL		370375	3755125	2.92E-07	2.83YrCan	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL		370425	3755125	3.10E-07	2.83YrCan	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL		370475	3755125	3.27E-07	2.83YrCan	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL		370525	3755125	3.42E-07	2.83YrCan	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL		370575	3755125	3.55E-07	2.83YrCan	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL		370625	3755125	3.66E-07	2.83YrCan	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL		370675	3755125	3.73E-07	2.83YrCan	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL		369925	3755175	1.54E-07	2.83YrCan	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL		369975	3755175	1.63E-07	2.83YrCan	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL		370025	3755175	1.74E-07	2.83YrCan	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL		370075	3755175	1.84E-07	2.83YrCan	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL		370125	3755175	1.95E-07	2.83YrCan	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL		370175	3755175	2.06E-07	2.83YrCan	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL		370225	3755175	2.18E-07	2.83YrCan	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL		370275	3755175	2.31E-07	2.83YrCan	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL		370325	3755175	2.45E-07	2.83YrCan	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL		370375	3755175	2.58E-07	2.83YrCan	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL		370425	3755175	2.71E-07	2.83YrCan	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL		370475	3755175	2.83E-07	2.83YrCan	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL		370525	3755175	2.93E-07	2.83YrCan	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL		370575	3755175	3.02E-07	2.83YrCan	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:16:06 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_2.83yrCancerUnmitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
361	ALL		370625	3755175	3.08E-07	2.83YrCan	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL		370675	3755175	3.12E-07	2.83YrCan	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL		369925	3755225	1.45E-07	2.83YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL		369975	3755225	1.52E-07	2.83YrCan	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL		370025	3755225	1.61E-07	2.83YrCan	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL		370075	3755225	1.71E-07	2.83YrCan	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL		370125	3755225	1.79E-07	2.83YrCan	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL		370175	3755225	1.88E-07	2.83YrCan	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL		370225	3755225	1.98E-07	2.83YrCan	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL		370275	3755225	2.08E-07	2.83YrCan	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL		370325	3755225	2.18E-07	2.83YrCan	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL		370375	3755225	2.29E-07	2.83YrCan	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL		370425	3755225	2.38E-07	2.83YrCan	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL		370475	3755225	2.46E-07	2.83YrCan	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL		370525	3755225	2.53E-07	2.83YrCan	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL		370575	3755225	2.59E-07	2.83YrCan	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL		370625	3755225	2.63E-07	2.83YrCan	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL		369925	3755275	1.37E-07	2.83YrCan	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL		369975	3755275	1.44E-07	2.83YrCan	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL		370025	3755275	1.51E-07	2.83YrCan	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL		370075	3755275	1.58E-07	2.83YrCan	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL		370125	3755275	1.65E-07	2.83YrCan	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL		370175	3755275	1.72E-07	2.83YrCan	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL		370225	3755275	1.80E-07	2.83YrCan	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL		370275	3755275	1.88E-07	2.83YrCan	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL		370325	3755275	1.96E-07	2.83YrCan	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL		370375	3755275	2.04E-07	2.83YrCan	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL		370425	3755275	2.10E-07	2.83YrCan	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL		370475	3755275	2.16E-07	2.83YrCan	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL		370525	3755275	2.21E-07	2.83YrCan	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL		370575	3755275	2.24E-07	2.83YrCan	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL		370625	3755275	2.27E-07	2.83YrCan	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL		369925	3755325	1.29E-07	2.83YrCan	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL		369975	3755325	1.35E-07	2.83YrCan	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL		370025	3755325	1.40E-07	2.83YrCan	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL		370075	3755325	1.45E-07	2.83YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL		370125	3755325	1.51E-07	2.83YrCan	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL		370175	3755325	1.58E-07	2.83YrCan	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL		370225	3755325	1.64E-07	2.83YrCan	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL		370275	3755325	1.71E-07	2.83YrCan	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL		369925	3755375	1.21E-07	2.83YrCan	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL		369975	3755375	1.26E-07	2.83YrCan	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL		370025	3755375	1.30E-07	2.83YrCan	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL		370075	3755375	1.35E-07	2.83YrCan	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL		370125	3755375	1.40E-07	2.83YrCan	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:16:06 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_2.83yrCancerUnmitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
406	ALL		370175	3755375	1.45E-07	2.83YrCan	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL		370225	3755375	1.50E-07	2.83YrCan	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL		370275	3755375	1.55E-07	2.83YrCan	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		369925	3753975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2	ALL		369925	3754025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
3	ALL		369925	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
4	ALL		369975	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
5	ALL		370025	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
6	ALL		369925	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
7	ALL		369975	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
8	ALL		370025	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
9	ALL		370075	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
10	ALL		370125	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
11	ALL		370175	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
12	ALL		370225	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
13	ALL		370275	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
14	ALL		370325	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
15	ALL		370375	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
16	ALL		370425	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
17	ALL		370475	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
18	ALL		370525	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
19	ALL		369925	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
20	ALL		369975	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
21	ALL		370025	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
22	ALL		370075	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
23	ALL		370125	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
24	ALL		370175	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
25	ALL		370225	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
26	ALL		370275	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
27	ALL		370375	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
28	ALL		370425	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
29	ALL		370475	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
30	ALL		370525	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
31	ALL		369975	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
32	ALL		370025	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
33	ALL		370075	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
34	ALL		370125	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
35	ALL		370175	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
36	ALL		370225	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
37	ALL		370375	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
38	ALL		370425	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
39	ALL		370475	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
40	ALL		370525	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
41	ALL		369975	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
42	ALL		370025	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
43	ALL		370075	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
44	ALL		370125	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
45	ALL		370225	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05

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REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
46	ALL		370375	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
47	ALL		370425	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
48	ALL		370475	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
49	ALL		370525	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
50	ALL		370575	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
51	ALL		370625	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
52	ALL		370675	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
53	ALL		370775	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
54	ALL		370825	3754275	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
55	ALL		369975	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
56	ALL		370025	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
57	ALL		370075	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
58	ALL		370125	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
59	ALL		370325	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
60	ALL		370375	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
61	ALL		370425	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
62	ALL		370475	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
63	ALL		370525	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
64	ALL		370575	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
65	ALL		370625	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
66	ALL		370675	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
67	ALL		370775	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
68	ALL		370825	3754325	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
69	ALL		369925	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
70	ALL		369975	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
71	ALL		370025	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
72	ALL		370075	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
73	ALL		370125	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
74	ALL		370175	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
75	ALL		370225	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
76	ALL		370275	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
77	ALL		370325	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
78	ALL		370375	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
79	ALL		370425	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
80	ALL		370475	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05
81	ALL		370525	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
82	ALL		370575	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
83	ALL		370625	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
84	ALL		370675	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
85	ALL		370775	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
86	ALL		370825	3754375	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04
87	ALL		369925	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
88	ALL		369975	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
89	ALL		370025	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
90	ALL		370075	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
91	ALL		370125	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
92	ALL		370175	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
93	ALL		370225	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
94	ALL		370275	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
95	ALL		370325	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
96	ALL		370375	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
97	ALL		370425	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
98	ALL		370475	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
99	ALL		370525	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05
100	ALL		370575	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
101	ALL		370625	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
102	ALL		370675	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
103	ALL		370775	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
104	ALL		370825	3754425	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
105	ALL		369925	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
106	ALL		369975	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
107	ALL		370025	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
108	ALL		370075	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
109	ALL		370125	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
110	ALL		370175	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
111	ALL		370225	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
112	ALL		370275	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
113	ALL		370325	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
114	ALL		370375	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
115	ALL		370425	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
116	ALL		370475	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
117	ALL		370525	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
118	ALL		370575	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
119	ALL		370625	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
120	ALL		370675	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
121	ALL		370775	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
122	ALL		370825	3754475	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
123	ALL		369925	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
124	ALL		369975	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
125	ALL		370025	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
126	ALL		370075	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
127	ALL		370125	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
128	ALL		370175	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
129	ALL		370225	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
130	ALL		370275	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
131	ALL		370325	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
132	ALL		370375	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
133	ALL		370425	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
134	ALL		370475	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
135	ALL		370525	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
136	ALL		370575	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
137	ALL		370625	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
138	ALL		370675	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
139	ALL		370775	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04
140	ALL		370825	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
141	ALL		369925	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
142	ALL		369975	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
143	ALL		370025	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
144	ALL		370075	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
145	ALL		370125	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
146	ALL		370175	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
147	ALL		370225	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
148	ALL		370275	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
149	ALL		370325	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
150	ALL		370375	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
151	ALL		370425	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
152	ALL		370475	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
153	ALL		370525	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
154	ALL		370575	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
155	ALL		370625	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
156	ALL		370675	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
157	ALL		370775	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
158	ALL		370825	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
159	ALL		369925	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
160	ALL		369975	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
161	ALL		370025	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
162	ALL		370075	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
163	ALL		370125	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
164	ALL		370275	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
165	ALL		370325	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
166	ALL		370375	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
167	ALL		370425	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
168	ALL		370475	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
169	ALL		370525	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05
170	ALL		370575	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
171	ALL		370625	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
172	ALL		370675	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
173	ALL		370775	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
174	ALL		370825	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
175	ALL		369925	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
176	ALL		369975	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
177	ALL		370025	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
178	ALL		370075	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
179	ALL		370125	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
180	ALL		370225	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
181	ALL		370275	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
182	ALL		370375	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
183	ALL		370425	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
184	ALL		370475	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
185	ALL		370525	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
186	ALL		370575	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
187	ALL		370625	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
188	ALL		370675	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
189	ALL		370775	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
190	ALL		370825	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
191	ALL		369925	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
192	ALL		369975	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
193	ALL		370025	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
194	ALL		370075	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
195	ALL		370125	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
196	ALL		370175	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
197	ALL		370225	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
198	ALL		370275	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
199	ALL		370375	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
200	ALL		370425	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
201	ALL		370475	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
202	ALL		370525	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
203	ALL		370575	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-05
204	ALL		370625	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
205	ALL		370675	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
206	ALL		370775	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
207	ALL		370825	3754725	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
208	ALL		369925	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
209	ALL		369975	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
210	ALL		370025	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
211	ALL		370075	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
212	ALL		370125	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
213	ALL		370175	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
214	ALL		370225	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
215	ALL		370275	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
216	ALL		370425	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
217	ALL		370475	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
218	ALL		370525	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
219	ALL		370575	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
220	ALL		370625	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
221	ALL		370675	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
222	ALL		370775	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
223	ALL		370825	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
224	ALL		370875	3754775	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
225	ALL		369925	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05

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REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
226	ALL		369975	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
227	ALL		370025	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
228	ALL		370075	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
229	ALL		370125	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
230	ALL		370425	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
231	ALL		370475	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
232	ALL		370525	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
233	ALL		370575	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
234	ALL		370625	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
235	ALL		370675	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
236	ALL		370775	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
237	ALL		370825	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
238	ALL		370875	3754825	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
239	ALL		369925	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
240	ALL		369975	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
241	ALL		370025	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
242	ALL		370075	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
243	ALL		370125	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
244	ALL		370175	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
245	ALL		370225	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
246	ALL		370275	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
247	ALL		370325	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
248	ALL		370375	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
249	ALL		370425	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
250	ALL		370475	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
251	ALL		370525	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
252	ALL		370575	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
253	ALL		370625	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05
254	ALL		370675	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05
255	ALL		370775	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
256	ALL		370825	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05
257	ALL		370875	3754875	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
258	ALL		369925	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
259	ALL		369975	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
260	ALL		370025	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
261	ALL		370075	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
262	ALL		370125	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
263	ALL		370175	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
264	ALL		370225	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
265	ALL		370275	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
266	ALL		370325	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
267	ALL		370375	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
268	ALL		370425	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
269	ALL		370475	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
270	ALL		370525	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
271	ALL		370575	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
272	ALL		370625	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
273	ALL		370675	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
274	ALL		370775	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
275	ALL		370825	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
276	ALL		370875	3754925	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
277	ALL		369925	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
278	ALL		369975	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
279	ALL		370025	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
280	ALL		370075	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
281	ALL		370125	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
282	ALL		370175	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
283	ALL		370225	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
284	ALL		370275	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
285	ALL		370325	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
286	ALL		370375	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
287	ALL		370425	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
288	ALL		370475	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
289	ALL		370525	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
290	ALL		370575	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
291	ALL		370625	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
292	ALL		370675	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
293	ALL		370775	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
294	ALL		370825	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
295	ALL		370875	3754975	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
296	ALL		369925	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
297	ALL		369975	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
298	ALL		370025	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
299	ALL		370075	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
300	ALL		370125	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
301	ALL		370175	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
302	ALL		370225	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
303	ALL		370275	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
304	ALL		370325	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
305	ALL		370375	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
306	ALL		370425	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
307	ALL		370475	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
308	ALL		370525	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
309	ALL		370575	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
310	ALL		370625	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
311	ALL		370675	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
312	ALL		370775	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
313	ALL		370825	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
314	ALL		370875	3755025	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
315	ALL		369925	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06

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REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
316	ALL		369975	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
317	ALL		370025	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
318	ALL		370075	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
319	ALL		370125	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
320	ALL		370175	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
321	ALL		370225	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
322	ALL		370275	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
323	ALL		370325	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
324	ALL		370375	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
325	ALL		370425	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
326	ALL		370475	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
327	ALL		370525	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
328	ALL		370575	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
329	ALL		370625	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
330	ALL		370675	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
331	ALL		369925	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06
332	ALL		369975	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06
333	ALL		370025	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
334	ALL		370075	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
335	ALL		370125	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
336	ALL		370175	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
337	ALL		370225	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
338	ALL		370275	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
339	ALL		370325	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
340	ALL		370375	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
341	ALL		370425	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
342	ALL		370475	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
343	ALL		370525	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
344	ALL		370575	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
345	ALL		370625	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
346	ALL		370675	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
347	ALL		369925	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
348	ALL		369975	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06
349	ALL		370025	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06
350	ALL		370075	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
351	ALL		370125	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
352	ALL		370175	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
353	ALL		370225	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
354	ALL		370275	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
355	ALL		370325	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
356	ALL		370375	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
357	ALL		370425	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
358	ALL		370475	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
359	ALL		370525	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
360	ALL		370575	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05

*HARP - HRACalc v19044 6/11/2020 2:49:17 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC Const Mit\hra\PCC_ChronicMitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
361	ALL		370625	3755175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
362	ALL		370675	3755175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
363	ALL		369925	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
364	ALL		369975	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-06
365	ALL		370025	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06
366	ALL		370075	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-06
367	ALL		370125	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06
368	ALL		370175	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
369	ALL		370225	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
370	ALL		370275	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
371	ALL		370325	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
372	ALL		370375	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
373	ALL		370425	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
374	ALL		370475	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
375	ALL		370525	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
376	ALL		370575	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
377	ALL		370625	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
378	ALL		369925	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06
379	ALL		369975	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
380	ALL		370025	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06
381	ALL		370075	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06
382	ALL		370125	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06
383	ALL		370175	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-06
384	ALL		370225	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-06
385	ALL		370275	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
386	ALL		370325	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
387	ALL		370375	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
388	ALL		370425	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
389	ALL		370475	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
390	ALL		370525	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
391	ALL		370575	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
392	ALL		370625	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
393	ALL		369925	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06
394	ALL		369975	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06
395	ALL		370025	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06
396	ALL		370075	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06
397	ALL		370125	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06
398	ALL		370175	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06
399	ALL		370225	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06
400	ALL		370275	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06
401	ALL		369925	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
402	ALL		369975	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-06
403	ALL		370025	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
404	ALL		370075	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06
405	ALL		370125	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06

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REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
406	ALL		370175	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06
407	ALL		370225	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
408	ALL		370275	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		369925	3753975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
2	ALL		369925	3754025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
3	ALL		369925	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
4	ALL		369975	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
5	ALL		370025	3754075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
6	ALL		369925	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
7	ALL		369975	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
8	ALL		370025	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
9	ALL		370075	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
10	ALL		370125	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
11	ALL		370175	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
12	ALL		370225	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
13	ALL		370275	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
14	ALL		370325	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
15	ALL		370375	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
16	ALL		370425	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
17	ALL		370475	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
18	ALL		370525	3754125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
19	ALL		369925	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
20	ALL		369975	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
21	ALL		370025	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
22	ALL		370075	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
23	ALL		370125	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
24	ALL		370175	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
25	ALL		370225	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
26	ALL		370275	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
27	ALL		370375	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
28	ALL		370425	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
29	ALL		370475	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
30	ALL		370525	3754175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
31	ALL		369975	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
32	ALL		370025	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
33	ALL		370075	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
34	ALL		370125	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
35	ALL		370175	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
36	ALL		370225	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
37	ALL		370375	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
38	ALL		370425	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
39	ALL		370475	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
40	ALL		370525	3754225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
41	ALL		369975	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
42	ALL		370025	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
43	ALL		370075	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
44	ALL		370125	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
45	ALL		370225	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
46	ALL		370375	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
47	ALL		370425	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
48	ALL		370475	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
49	ALL		370525	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
50	ALL		370575	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
51	ALL		370625	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
52	ALL		370675	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
53	ALL		370775	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
54	ALL		370825	3754275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02
55	ALL		369975	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
56	ALL		370025	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
57	ALL		370075	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
58	ALL		370125	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
59	ALL		370325	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
60	ALL		370375	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
61	ALL		370425	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
62	ALL		370475	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
63	ALL		370525	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04
64	ALL		370575	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
65	ALL		370625	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
66	ALL		370675	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
67	ALL		370775	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-03
68	ALL		370825	3754325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02
69	ALL		369925	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
70	ALL		369975	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
71	ALL		370025	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
72	ALL		370075	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
73	ALL		370125	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
74	ALL		370175	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
75	ALL		370225	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
76	ALL		370275	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
77	ALL		370325	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
78	ALL		370375	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
79	ALL		370425	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04
80	ALL		370475	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04
81	ALL		370525	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
82	ALL		370575	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
83	ALL		370625	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
84	ALL		370675	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
85	ALL		370775	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03
86	ALL		370825	3754375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-03
87	ALL		369925	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
88	ALL		369975	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
89	ALL		370025	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
90	ALL		370075	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
91	ALL		370125	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
92	ALL		370175	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
93	ALL		370225	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
94	ALL		370275	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
95	ALL		370325	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
96	ALL		370375	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
97	ALL		370425	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
98	ALL		370475	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
99	ALL		370525	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
100	ALL		370575	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
101	ALL		370625	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
102	ALL		370675	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
103	ALL		370775	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03
104	ALL		370825	3754425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
105	ALL		369925	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
106	ALL		369975	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
107	ALL		370025	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
108	ALL		370075	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
109	ALL		370125	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
110	ALL		370175	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
111	ALL		370225	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
112	ALL		370275	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
113	ALL		370325	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
114	ALL		370375	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
115	ALL		370425	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
116	ALL		370475	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04
117	ALL		370525	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04
118	ALL		370575	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
119	ALL		370625	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
120	ALL		370675	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
121	ALL		370775	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
122	ALL		370825	3754475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03
123	ALL		369925	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
124	ALL		369975	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
125	ALL		370025	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
126	ALL		370075	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
127	ALL		370125	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
128	ALL		370175	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
129	ALL		370225	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
130	ALL		370275	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
131	ALL		370325	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
132	ALL		370375	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
133	ALL		370425	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04
134	ALL		370475	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
135	ALL		370525	3754525	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
136	ALL		370575	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
137	ALL		370625	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
138	ALL		370675	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
139	ALL		370775	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-03
140	ALL		370825	3754525	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02
141	ALL		369925	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
142	ALL		369975	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
143	ALL		370025	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
144	ALL		370075	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
145	ALL		370125	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
146	ALL		370175	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
147	ALL		370225	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
148	ALL		370275	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
149	ALL		370325	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
150	ALL		370375	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
151	ALL		370425	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
152	ALL		370475	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
153	ALL		370525	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04
154	ALL		370575	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
155	ALL		370625	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
156	ALL		370675	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
157	ALL		370775	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-03
158	ALL		370825	3754575	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02
159	ALL		369925	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
160	ALL		369975	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
161	ALL		370025	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
162	ALL		370075	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
163	ALL		370125	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
164	ALL		370275	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
165	ALL		370325	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
166	ALL		370375	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
167	ALL		370425	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
168	ALL		370475	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
169	ALL		370525	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
170	ALL		370575	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
171	ALL		370625	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
172	ALL		370675	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
173	ALL		370775	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03
174	ALL		370825	3754625	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-02
175	ALL		369925	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
176	ALL		369975	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
177	ALL		370025	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
178	ALL		370075	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
179	ALL		370125	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
180	ALL		370225	3754675	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
181	ALL		370275	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
182	ALL		370375	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
183	ALL		370425	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
184	ALL		370475	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04
185	ALL		370525	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04
186	ALL		370575	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
187	ALL		370625	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
188	ALL		370675	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
189	ALL		370775	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-03
190	ALL		370825	3754675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02
191	ALL		369925	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
192	ALL		369975	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
193	ALL		370025	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
194	ALL		370075	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
195	ALL		370125	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
196	ALL		370175	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
197	ALL		370225	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
198	ALL		370275	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
199	ALL		370375	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
200	ALL		370425	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
201	ALL		370475	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
202	ALL		370525	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04
203	ALL		370575	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-04
204	ALL		370625	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
205	ALL		370675	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
206	ALL		370775	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03
207	ALL		370825	3754725	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03
208	ALL		369925	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
209	ALL		369975	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
210	ALL		370025	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
211	ALL		370075	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
212	ALL		370125	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
213	ALL		370175	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
214	ALL		370225	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
215	ALL		370275	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
216	ALL		370425	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
217	ALL		370475	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
218	ALL		370525	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
219	ALL		370575	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
220	ALL		370625	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
221	ALL		370675	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
222	ALL		370775	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
223	ALL		370825	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
224	ALL		370875	3754775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
225	ALL		369925	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
226	ALL		369975	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
227	ALL		370025	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
228	ALL		370075	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
229	ALL		370125	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
230	ALL		370425	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
231	ALL		370475	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
232	ALL		370525	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04
233	ALL		370575	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
234	ALL		370625	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04
235	ALL		370675	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04
236	ALL		370775	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
237	ALL		370825	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
238	ALL		370875	3754825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
239	ALL		369925	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
240	ALL		369975	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
241	ALL		370025	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
242	ALL		370075	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
243	ALL		370125	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
244	ALL		370175	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
245	ALL		370225	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
246	ALL		370275	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
247	ALL		370325	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
248	ALL		370375	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
249	ALL		370425	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
250	ALL		370475	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
251	ALL		370525	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
252	ALL		370575	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
253	ALL		370625	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
254	ALL		370675	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04
255	ALL		370775	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
256	ALL		370825	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04
257	ALL		370875	3754875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
258	ALL		369925	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
259	ALL		369975	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
260	ALL		370025	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
261	ALL		370075	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
262	ALL		370125	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
263	ALL		370175	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
264	ALL		370225	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
265	ALL		370275	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
266	ALL		370325	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
267	ALL		370375	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
268	ALL		370425	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
269	ALL		370475	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
270	ALL		370525	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
271	ALL		370575	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
272	ALL		370625	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
273	ALL		370675	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
274	ALL		370775	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
275	ALL		370825	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04
276	ALL		370875	3754925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
277	ALL		369925	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
278	ALL		369975	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
279	ALL		370025	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
280	ALL		370075	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
281	ALL		370125	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
282	ALL		370175	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
283	ALL		370225	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
284	ALL		370275	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
285	ALL		370325	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
286	ALL		370375	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
287	ALL		370425	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
288	ALL		370475	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
289	ALL		370525	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
290	ALL		370575	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
291	ALL		370625	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
292	ALL		370675	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
293	ALL		370775	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
294	ALL		370825	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
295	ALL		370875	3754975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
296	ALL		369925	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
297	ALL		369975	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
298	ALL		370025	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
299	ALL		370075	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
300	ALL		370125	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
301	ALL		370175	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
302	ALL		370225	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
303	ALL		370275	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
304	ALL		370325	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
305	ALL		370375	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
306	ALL		370425	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
307	ALL		370475	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
308	ALL		370525	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
309	ALL		370575	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
310	ALL		370625	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
311	ALL		370675	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
312	ALL		370775	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
313	ALL		370825	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
314	ALL		370875	3755025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
315	ALL		369925	3755075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05

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REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
316	ALL		369975	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
317	ALL		370025	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
318	ALL		370075	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
319	ALL		370125	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
320	ALL		370175	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
321	ALL		370225	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
322	ALL		370275	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
323	ALL		370325	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
324	ALL		370375	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
325	ALL		370425	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
326	ALL		370475	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
327	ALL		370525	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
328	ALL		370575	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
329	ALL		370625	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
330	ALL		370675	3755075	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
331	ALL		369925	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
332	ALL		369975	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
333	ALL		370025	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
334	ALL		370075	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
335	ALL		370125	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
336	ALL		370175	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
337	ALL		370225	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
338	ALL		370275	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
339	ALL		370325	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
340	ALL		370375	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
341	ALL		370425	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
342	ALL		370475	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
343	ALL		370525	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
344	ALL		370575	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
345	ALL		370625	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
346	ALL		370675	3755125	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
347	ALL		369925	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
348	ALL		369975	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
349	ALL		370025	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
350	ALL		370075	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
351	ALL		370125	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
352	ALL		370175	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
353	ALL		370225	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
354	ALL		370275	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
355	ALL		370325	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
356	ALL		370375	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
357	ALL		370425	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
358	ALL		370475	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
359	ALL		370525	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
360	ALL		370575	3755175	NonCancei	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
361	ALL		370625	3755175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
362	ALL		370675	3755175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
363	ALL		369925	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
364	ALL		369975	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
365	ALL		370025	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
366	ALL		370075	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
367	ALL		370125	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-05
368	ALL		370175	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
369	ALL		370225	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
370	ALL		370275	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
371	ALL		370325	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
372	ALL		370375	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
373	ALL		370425	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
374	ALL		370475	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
375	ALL		370525	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
376	ALL		370575	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
377	ALL		370625	3755225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
378	ALL		369925	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
379	ALL		369975	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
380	ALL		370025	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
381	ALL		370075	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
382	ALL		370125	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
383	ALL		370175	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
384	ALL		370225	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
385	ALL		370275	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
386	ALL		370325	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
387	ALL		370375	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
388	ALL		370425	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
389	ALL		370475	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
390	ALL		370525	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
391	ALL		370575	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
392	ALL		370625	3755275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
393	ALL		369925	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
394	ALL		369975	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
395	ALL		370025	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
396	ALL		370075	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
397	ALL		370125	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
398	ALL		370175	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
399	ALL		370225	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
400	ALL		370275	3755325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
401	ALL		369925	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
402	ALL		369975	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05
403	ALL		370025	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
404	ALL		370075	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
405	ALL		370125	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05

*HARP - HRACalc v19044 6/11/2020 2:15:52 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\12717 Pacific Coast Commons SP Const HRA 2020.06\HRA\HARP2\PCC CON UNMIT\hra\PCC_ChronicUnmitHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
406	ALL		370175	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
407	ALL		370225	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05
408	ALL		370275	3755375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05

Appendix C-3

PCC Specific Plan Construction and Operational Energy Use

PCC SP - Construction Energy Use

Phase 1

	CO2 MT/yr				Diesel	Gasoline	Construciton	Woker	Vendor	Haul
	Equipment	Hauling	Vendor	Worker	kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
Demoltion	35.70	7.47	5.13	8.03	10.21	8.78	3,496.65	914.29	502.16	731.34
Site Preparation	36.78	0.00	2.69	5.26	10.21	8.78	3,602.27	598.64	263.04	0.00
Grading	57.32	0.00	5.35	16.53	10.21	8.78	5,614.03	1,882.89	523.87	0.00
Building Construction	225.93	0.00	70.78	107.80	10.21	8.78	22,128.48	12,278.29	6,932.82	0.00
Paving	44.06	0.00	5.32	8.11	10.21	8.78	4,315.44	923.50	521.44	0.00
Architectural Coating	5.62	0.00	10.65	16.22	10.21	8.78	550.17	1,846.99	1,042.89	0.00

Phase 2 and 3

	CO2 MT/yr				Diesel	Gasoline	Construciton	Woker	Vendor	Haul
	Equipment	Hauling	Vendor	Worker	kg CO2/Gallons	kg CO2/Gallons	Equipment Gallons	Vehicle Gallons	Vehicle Gallons	Vehicle Gallons
Demoltion	71.38	7.09	19.72	18.63	10.21	8.78	6,991.51	2,121.61	1,930.95	694.04
Total	36.80	0.00	5.16	11.71	10.21	8.78	3,603.89	1,333.59	505.73	0.00
Grading	54.73	60.94	9.86	29.80	10.21	8.78	5,360.16	3,394.58	965.48	5,968.74
Building Construction	303.69	0.00	184.20	343.79	10.21	8.78	29,744.20	39,155.80	18,041.39	0.00
Paving	43.06	0.00	10.06	14.75	10.21	8.78	4,217.14	1,680.51	984.98	0.00
Architectural Coating	5.49	0.00	20.11	44.26	10.21	8.78	537.66	5,041.54	1,969.94	0.00
						Total	**90,161.59**	**71,172.23**	**34,184.68**	**7,394.11**	**202,912.61**

California's Consumption of Petroleum Over Construction Period

Phase 1	35,841,600,000.00
Phase 2 and 3	45,352,200,000.00
Total	**81,193,800,000.00**

PCC SP - Operational Energy Use

Land Use	kBTU/yr	Therms	
Apartments Mid Rise		2,927,690	29,277
Regional Shopping Center		14,527	145
High Turnover Sit Down Restaurant		956,561	9,566
Total		**3,898,778**	**38,988**

PCC SP - Operational Energy Use

Total Electricity	**kWh/yr**
Apartments Mid Rise	1,044,560.00
Regional Shopping Center	81,249.00
High Turnover Sit Down Restaurant	131,535.00
Parking Garage	1,660,290.00
Building Total	*2,917,634.00*
Water/Wastewater	
Total	**3,143,911.23**

Electricity Intensity Factors - Water/Wastewater

Process	**Units**	
Supply	kwh/MG	2117
Treat	kwh/MG	111
Distribute	kwh/MG	1272
Wastewater Treatment	kwh/MG	1911
Total	**kwh/MG**	**5,411**

* Electricity intensity factors from CalEEMod Appendix D for SCAQMD

Electricity Demand - Water/Wastewater

	Units	**Potable Water - Indoor**	**Potable Water - Outdoor**	**Total**
Electricity Intensity Factor				
Supply	kwh/MG	9,727	2,117	N/A
Treat	kwh/MG	111	111	N/A
Distribute	kwh/MG	1,272	1,272	N/A
Wastewater Treatment	kwh/MG	1,911	-	N/A
Total	**kwh/MG**	**13,021**	**3,500**	N/A
Water Consumption - Project	**MG/yr**	**15**	**9**	**24**
Electricity Usage - Project	**kwh/yr**	**195,829**	**30,449**	**226,277.23**

Project - Land Uses	Mgal - Indoor	Mgal - Outdoor
Apartments Mid Rise	13.7084	8.64226
Regional Shopping Center	0.432584	0
High Turnover Sit Down Restaurant	0.89846	0.057348
	15.039444	8.699608

PCC SP - Operational Energy Use

	Annual VMT	Annual CO2 MT	% GAS	% DSL	MT CO2 GAS	MT CO2 DSL	Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Diesel Gallons/yr	Gasoline Gallons/yr	Petro Gallons/yr
Project	6,330,741.00	1,766.93	92.43	7.57	1,633.12	133.81	10.21	8.78	13,106.20	186,004.17	199,110.37

CULTURAL RESOURCES TECHNICAL REPORT FOR THE PACIFIC COAST COMMONS SPECIFIC PLAN PROJECT EL SEGUNDO, CALIFORNIA

Prepared for:

City of El Segundo

Planning and Building Safety Department

350 Main Street

El Segundo, CA 90245

Contact: Paul Samaras, AICP, Principal Planner

Prepared by:

Kate Kaiser, MSHP, Sarah Corder, MFA, Ted Roberts, MA

William Burns, MS, RPA, and Samantha Murray, MA

DUDEK

38 North Marengo Avenue

Pasadena, California 91101

OCTOBER 2020

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Executive Summary

Dudek was retained by the City of El Segundo to complete a cultural resources technical report for the Pacific Coast Commons Specific Plan Project (Project) in the City of El Segundo, California. This report includes the results of a California Historical Resources Information System (CHRIS) records search; coordination with the Native American Heritage Commission (NAHC); a pedestrian survey of the Project site by a qualified architectural historian; building development and archival research; development of an appropriate historic context for the Project site; and recordation and evaluation of one (1) commercial property over 45 years old for historical significance and integrity in consideration of National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and City of El Segundo designation criteria and integrity requirements. This report was prepared in conformance with California Environmental Quality Act (CEQA) Guidelines Section 15064.5 for historical resources and all applicable local guidelines and regulations.

Dudek conducted a CHRIS records search at the South Central Coastal Information Center (SCCIC) on November 14, 2019. No cultural resources were identified within the Project site as a result. The records search identified 33 previously conducted cultural resources technical investigations within the 1-mile records search area. Two of these studies are adjacent to the Project site. One study overlaps the Project site. None of these studies identified impacts to cultural resources within the vicinity of the Project site. Additionally, the SCCIC records indicate that 12 previously recorded cultural resources exist within the surrounding 1-mile search radius. All 12 resources identified consist of built environment resources, none of which intersect or are adjacent to the Project site. No previously recorded prehistoric or historic-era archaeological resources were identified within 1-mile of the Project site as a result of the records search.

Dudek contacted the California Native American Heritage Commission (NAHC) on October 17, 2019 to request a search of the Sacred Lands File (SLF). Results of the SLF records search (received October 28, 2019) were negative. The NAHC suggested contacting five Native American individuals and/or tribal organizations who may have direct knowledge of cultural resources in or near the Project site. No informal or formal outreach to these contacts has been initiated by Dudek at this time.

The Fairfield Inn & Suites property (525 Sepulveda Boulevard) within the Specific Plan area does not appear eligible under any NRHP, CRHR, or City of El Segundo designation criteria due to a lack of significant historical associations and architectural merit. Therefore, this property is not an historical resource for the purposes of CEQA.

As a result of Dudek's extensive archival research, field survey, NAHC coordination, and property significance evaluation, no historical or tribal cultural resources were identified within the Project site. Nor were any adjacent resources identified that could be indirectly impacted by proposed Project activities. Therefore, the Project would result in a less than significant impact to cultural resources under CEQA.

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1 Introduction

Dudek was retained by the City of El Segundo to complete a cultural resources technical report for the Pacific Coast Commons Specific Plan Project (Project) in the City of El Segundo, California. This report includes the results of a California Historical Resources Information System (CHRIS) records search; coordination with the California Native American Heritage Commission (NAHC) and tribal contacts; building development and archival research; a pedestrian survey of the Project site by a qualified architectural historian; development of an appropriate historic context for the Project site; and recordation and evaluation of one (1) commercial property over 45 years old for historical significance and integrity in consideration of National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and City of El Segundo designation criteria and integrity requirements. This report was prepared in conformance with California Environmental Quality Act (CEQA) Guidelines Section 15064.5 for historical resources.

1.1 Project Location and Description

Project Location

The proposed Project site is located in the City of El Segundo (City) within the County of Los Angeles, approximately 20 miles southwest from downtown Los Angeles. The Los Angeles International Airport (LAX) is located to north of the City of El Segundo; the Los Angeles County community of Del Aire and the City of Hawthorne are located to the east, the City of Manhattan Beach is located to the south; and the Hyperion Sewage Treatment Plant, Dockweiler Beach, and the Pacific Ocean is located to the west of the City.

The Project site consists of 8 parcels (Table 1) on approximately 6.38 acres (post street dedications) located in the central portion of the City (Figure 1). The Project site is completely developed and contains approximately 0.25-mile of street frontage along Pacific Coast Highway (PCH) in the City of El Segundo. Specifically, the Project site is bounded by Holly Avenue on the south, Palm Avenue on the north, Indiana Street on the west, and PCH (also called SR-1 and Sepulveda Boulevard) on the east. The Project site also includes property that is currently used as surface parking for the Fairfield Inn & Suites Hotel between Mariposa Avenue on the south and Palm Avenue on the north, just west of PCH.

Table 1. Detail of Project Parcels

Address/Parcel Number	Use	Square Footage	Acres
4139-025-075	Surface Parking	9,564	0.220
4139-025-73, 074, 076, 081	Surface Parking and Aloft Hotel	89,928	2.064
525 North Sepulveda/ 4139-025-091	Fairfield Inn and Suites Hotel Food Beverage Building (formerly the Hacienda Restaurant)	97,922	2.248
4139-024-057	Surface Parking	29,350	0.674
4139-024-058	Surface Parking	48,975	1.124
4139-024-057	Surface Parking	2,380	0.055

Table 1. Detail of Project Parcels

Address/Parcel Number	Use	Square Footage	Acres
	Total Existing	278,119	6.385

Source: Withee Malcom Architects 2020

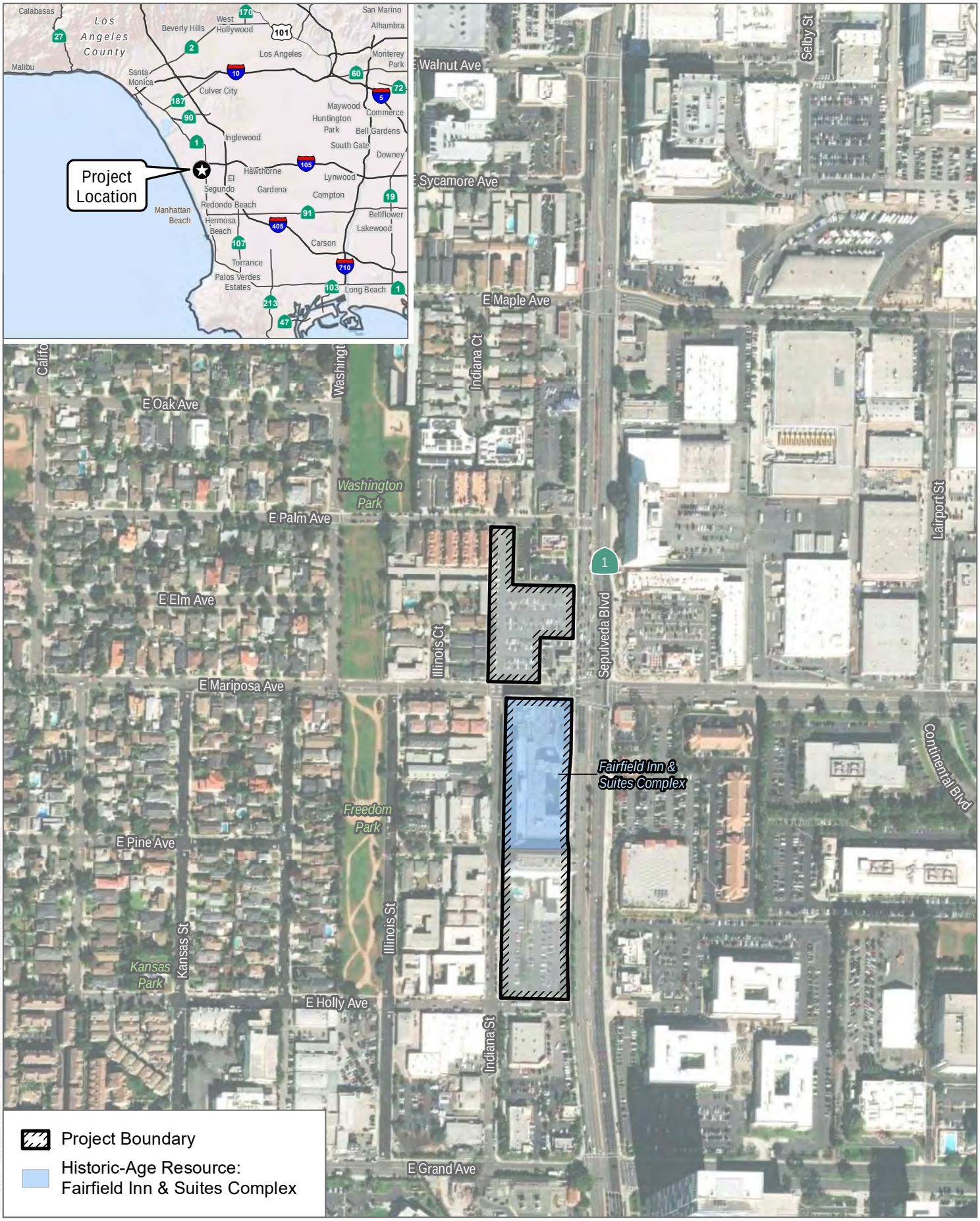
Project Description

The Project site is currently occupied by surface parking lots, the Fairfield Inn and Suites Hotel, and the Aloft Hotel. The Project would allow for the redevelopment the existing surface parking lots and a portion of the Fairfield Inn and Suites Hotel property within the Project site through the adoption of a Specific Plan. The adoption of a Specific Plan would allow for the following: (1) the continued operation of the Fairfield Inn and Suites Hotel and Aloft Hotel, which contain 596 rooms within 282,398 square feet of hotel development; (2) 327,021 square feet of residential development for 263 new housing units, including 257 multi-family apartments and six condominium/townhomes; (3) 11,252 square feet of new commercial/retail uses; and (4) three new parking structures that would contain approximately 803 parking stalls.

The Fairfield Inn and Suites Hotel and Aloft Hotel would not be expanded, but the zoning for the existing properties would be changed to reflect the current land uses. Through the implementation of the Specific Plan, these two hotels would be brought into conformity with the land use designation and zoning for the Project site, as they are currently existing legal, non-conforming land uses because they were built prior to the current development standards of the General Commercial (C-3) Zone. The Specific Plan's three development areas are Pacific Coast Commons – South (PCC-South), Pacific Coast Commons – Fairfield Parking (PCC-Fairfield Parking), and Pacific Coast Commons – North (PCC-North).

In summary, the proposed Specific Plan would allow for the redevelopment of the PCC-South, PCC-Fairfield Parking, and PCC-North and would allow for the existing Aloft Hotel and Fairfield Inn and Suites Hotel properties within the Specific Plan boundaries, which are currently existing legal, non-conforming uses, to be in compliance with the Specific Plan. The redevelopment of the PCC-South, PCC-Fairfield Parking, and PCC-North would result in physical changes to the environment, whereas the conversion of the currently existing legal, non-conforming hotel uses into the proposed development standards of the Specific Plan would not result in physical changes to the environment.

DRAFT



SOURCE: Esri and Digital Globe 2019; Open Street Map 2019

DUDEK

0 200 400 Feet

FIGURE 1

Project Location

Pacific Coast Commons Specific Plan EIR Project

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1.2 Project Personnel

This report and associated property significance evaluations was prepared by Dudek Architectural Historian Kate Kaiser, MSHP. Fieldwork and research was conducted by Dudek Architectural Historian Sarah Corder, MFA. Dudek Archaeologist Ted Roberts, MA, completed the CHRIS records search, the NAHC Sacred Lands File (SLF) request, and coordinated Native American outreach. This report was reviewed for quality assurance/quality control by Dudek Principal Architectural Historian Samantha Murray, MA and Dudek Lead Archaeologist and William Burns, MS, RPA. Resumes for all key personnel are provided in Appendix A.

1.3 Regulatory Setting

Federal

National Register of Historic Places

While there is no federal nexus for this Project, the subject property was evaluated in consideration of NRHP designation criteria. The NRHP is the United States' official list of districts, sites, buildings, structures, and objects worthy of preservation. Overseen by the National Park Service, under the U.S. Department of the Interior, the NRHP was authorized under the National Historic Preservation Act, as amended. Its listings encompass all National Historic Landmarks, as well as historic areas administered by the National Park Service.

NRHP guidelines for the evaluation of historic significance were developed to be flexible and to recognize the accomplishments of all who have made significant contributions to the nation's history and heritage. Its criteria are designed to guide state and local governments, federal agencies, and others in evaluating potential entries in the NRHP. For a property to be listed in or determined eligible for listing, it must be demonstrated to possess integrity and to meet at least one of the following criteria:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.

Integrity is defined in NRHP guidance, "How to Apply the National Register Criteria," as "the ability of a property to convey its significance. To be listed in the NRHP, a property must not only be shown to be significant under the NRHP criteria, but it also must have integrity" (NPS 1990). NRHP guidance further asserts that properties be

completed at least 50 years ago to be considered for eligibility. Properties completed fewer than 50 years before evaluation must be proven to be "exceptionally important" (criteria consideration to be considered for listing.

State

California Register of Historical Resources

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code Section 5020.1(j)). In 1992, the California legislature established the CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code Section 5024.1(a)). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the NRHP, enumerated below. According to California Public Resources Code Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

(2) Is associated with the lives of persons important in our past.

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

(4) Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- California Public Resources Code Section 21083.2(g) defines "unique archaeological resource."

- California Public Resources Code Section 21084.1 and CEQA Guidelines Section 15064.5(a) define "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource." It also defines the circumstances when a project would materially impair the significance of an historical resource.

- California Public Resources Code Section 21074(a) defines "tribal cultural resources."

- California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.

- California Public Resources Code Sections 21083.2(b)-(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(b).) If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); California Public Resources Code Section 5020.1(q)). In turn, CEQA Guidelines section 15064.5(b)(2) states the significance of an historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources; or

2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (California Public Resources Code Section 21083.2[a], [b], and [c]).

California Public Resources Code Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.

3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts to non-unique archaeological resources are generally not considered a significant environmental impact (California Public Resources Code section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as tribal cultural resource (California Public Resources Code Section 21074(c), 21083.2(h)), further consideration of significant impacts is required. CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Public Resources Code Section 5097.98.

Local

City of El Segundo Historic Preservation Ordinance (Chapter 15-14)

This study was completed in consideration of all sections of the El Segundo Historic Preservation Ordinance (Chapter 15-14). The ordinance was adopted in 1993 and provides for the identification, protection, enhancement, perpetuation and use of historic buildings and structures within the City that reflect special elements of the City's historical heritage. The Ordinance is enforced by the Planning Commission, which maintains the local register of cultural resources and historic sites. Sections most relevant to this study are provided below.

15-14-4: Criteria for Designation of Historic Resources

1. Procedures: Requests for designation of a cultural resource are voluntary and may be made by or with the written consent of the property owner, by filing an application with the Department of Community, Economic

and Development Services. The designation of a cultural resource is strictly voluntary, not mandatory. (Ord. 1212, 11-16-1993; amd. Ord. 1315, 1-18-2000)

a. The Commission shall hold a noticed public hearing on the matter within forty five (45) days of receipt of the complete application. Within seven (7) days of the hearing, the Commission shall provide a written recommendation to the City Council as to whether the building or structure should be made a designated cultural resource. If the recommendation of the Commission is to designate the building or structure as a designated cultural resource, the recommendation shall include the reasons for designating the building or structure as a designated cultural resource and shall include a determination of whether to mark it with a uniform and distinctive marker.

b. Within thirty (30) days after receiving the recommendation of the Commission, the City Council shall hold a noticed public hearing and approve or deny the recommendation.

c. Any hearing may be continued for any reason by the consent of the City and the property owner. If the property owner does not consent, there may be no more than one continuance for a period not to exceed thirty one (31) days if the additional time is needed to conduct further study of the cultural resource. If an EIR or negative declaration is required, the time limits set forth in California Public Resources Code section 21151.5 shall apply.

d. The City Council shall declare designated cultural resources by resolution, which shall contain a statement as to why the cultural resource is so designated. Any such resolution shall include a legal description of the property involved, including lot and block number and the name of the property owner. The resolution shall be duly recorded by the City Clerk in the County Recorder's office.

2. Criteria: A cultural resource may be declared a designated cultural resource if it meets the following criteria:

   a. Must be at least fifty (50) years old; and

   b. It is associated with persons or events significant in local, State, or national history; or

   c. It reflects or exemplifies a particular period of national, State, or local history; or

   d. It embodies the distinctive characteristics of a type, style, period of architecture, or method of construction.

3. Temporary Stay On Permits Pending Designation: No construction, alteration, demolition, relocation, or restoration shall be allowed and no other entitlement permits shall be issued with regard to any proposed designated cultural resource from the time an application for designation is made until the City Council has made a final decision to either approve or deny the request for designation.

4. Removal Of Designation: A cultural resource designation may be removed subject to the same procedures set forth above. (Ord. 1212, 11-16-1993)

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2 Background Research

2.1 CHRIS Records Search

On November 14, 2019, Dudek completed a CHRIS records search of the Project site and a 1-mile search radius at the SCCIC located on the campus of California State University, Fullerton. This search included mapped prehistoric and historic archaeological resources as well as historic built-environment resources; Department of Parks and Recreation (DPR) site records; technical reports; archival resources; and ethnographic references. The confidential records search results are provided in Confidential Appendix B.

Previously Conducted Cultural Resources Studies

Results of the cultural resources records search indicated that 33 previous cultural resource studies (Table 2) have been conducted within 1-mile of the Project site between 1975 and 2013. Of these, one study overlaps the Project site (LA-02904). Two studies were adjacent (LA-10160, LA-11973); however, the scope of these studies does not address the Project site. A brief summary of the study within the Project site boundary is provided below.

Table 2. Previously Conducted Cultural Resources Studies within 1-Mile of the Project Site

SCCIC Report Number	Authors	Year	Title	Proximity to Project Site
LA-00078	Rosen, Martin D.	1975	Evaluation of the Archaeological Resources and Potential Impact of the Proposed Construction of Route 105 Freeway From El Segundo to Norwalk	Outside
LA-01543	Wlodarski, Robert J.	1986	Negative Archaeological Survey Report for 07-la-1 23.4/25.2	Outside
LA-01860	Singer, Clay A. and John E. Atwood	1989	Cultural Resources Survey and Impact Assessment for the Hekmat Property on Bailard Road in Malibu, Los Angeles County, California	Outside
LA-01982	Leonard, Nelson N. III	1976	Los Angeles International Airport Series Volume 1 Draft Environmental Impact Statement	Outside
LA-02659	Wlodarski, Robert J.	1992	A Phase 1 Archaeological Study for the Sepulveda Tunnel Emonstration Project, Los Angeles International Airport, Los Angeles County, California	Outside
LA-02904	Stickel, Gary E.	1993	Draft Report a Phase I Cultural Resources Literature Search for the West Basin Water Reclamation Project	Overlaps
LA-03955	McLean, Deborah K.	1998	Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility La 234-02, 1900 Hughes Way, City of El Segundo, County of Los Angeles, California	Outside
LA-04647	Duke, Curt	1999	Cultural Resource Assessment for Pacific Bell Mobil Services Facility La 942-04, in the County of Los Angeles, California	Outside

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Table 2. Previously Conducted Cultural Resources Studies within 1-Mile of the Project Site

SCCIC Report Number	Authors	Year	Title	Proximity to Project Site
LA-04910	Raschke, Rod	1995	Paleontological and Archaeological Resources Reconnaissance of the Los Angeles International Airport (LAX) Property, Los Angeles County, California	Outside
LA-05536	Avina, Mike	2001	Monitoring Report for Xo California Builds-1920 Maple Avenue, El Segundo, California, and 4000 Macarthur Blvd, Newport Beach, California	Outside
LA-05709	McKenna, Jeanette A.	2002	Review of Cultural Resource Assessment/evaluation for Nextel Communications Site CA-7534-a, Los Angeles, Los Angeles County, California	Outside
LA-05710	Duke, Curt	2002	Cultural Resource Assessment AT&T Wireless Facility No. D432 Los Angeles County, California	Outside
LA-05756	Christy, Juliet L.	2002	West Basin Water Recycling Plant Expansion Project El Segundo, Ca	Outside
LA-06239	Wesson, Alex, Bryon Bass, and Brian Hatoff	2000	El Segundo Power Redevelopment Project Cultural Resources (Archaeological Resources) Appendix J of Application for Certification	Outside
LA-06240	Bunse, Meta and Mikesell, Stephen D.	2000	El Segundo Power Redevelopment Project Historic Resources (built Environment) Appendix K of Application for Certification	Outside
LA-06249	Alcock, Gwyn	2000	Cultural Resources Investigation for the Nextlink Fiberoptic Project, Los Angeles and Orange Counties, California (first Addendum); Nextlink Project Number: 17033-2	Outside
LA-06903	Bonner, Wayne H.	2000	Records Search Results for Sprint Pcs Facility La38xc74d (the El Segundo Site), Located at 1901 South Hughes Way in El Segundo, Los Angeles County, California	Outside
LA-07708	Bonner, Wayne H. and Christeen Taniguchi	2004	Direct and Indirect APE Historic Architectural Assessments for Sprint Telecommunications Facility Candidate La60xc361e (el Segundo Water Tank) 350 Main Street, El Segundo, Los Angeles County, California	Outside
LA-07711	Bonner, Wayne H. and Christeen Taniguchi	2004	Records Search Results and Site Visit for Sprint Telecommunications Facility Candidate La60xc361e (El Segundo Water Tank) 350 Main Street, El Segundo, Los Angeles County, California	Outside
LA-07722	Maki, Mary K.	2005	Records Search Results for the Chevron El Segundo Refinery, El Segundo, Los Angeles County	Outside
LA-08882	Bonner, Wayne H. and Kathleen A. Crawford	2007	Cultural Resources Records Search Ad Site Visit Results for Royal Street Communications, LLC, Candidate La2640a (SCE El Nido), 1703 East Mariposa Avenue, El Segundo, Los Angeles County, California	Outside
LA-09177	Bonner, Wayne H.	2007	Direct APE Historic Architectural Assessment for Royal Street Communications, LLC Candidate LA2640A (SCE El Nido), 1703 East Mariposa Avenue, El Segundo, Los Angeles County, California	Outside

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Table 2. Previously Conducted Cultural Resources Studies within 1-Mile of the Project Site

SCCIC Report Number	Authors	Year	Title	Proximity to Project Site
LA-09356	Duke, Curt and Judith Marvin	2002	Cultural Resources Assessment AT&T Wireless Services Facility No. 05005A	Outside
LA-09925	Michael D. Richards	2009	A Report of the Monitoring During Trench Excavation, light grading, and planting for the Imperial Highway Stormwater Best Management Practices Project, near the Los Angeles International Airport (LAX) in the City of Los Angeles, California	Outside
LA-10160	Harper, Caprice D. and Francesca Smith	2008	Preliminary Cultural Resources Survey for the Formation of the Wiseburn Unified School District Project, Cities of El Segundo and Hawthorne, and Unincorporated Los Angeles County, CA	Adjacent
LA-10857	Smith, Brian F.	2005	Final - LAX Master Plan Mitigation Monitoring & Reporting program- Archaeological Treatment Plan	Outside
LA-11031	Bonner, Wayne	2011	Direct APE Historic Architectural Assessment for AT&T Mobility, LLC Candidate LAR853-01-CLU2377-01 (Standard Aero Building), 6201 West Imperial Highway, Los Angeles, Los Angeles County, California	Outside
LA-11560	Getchell, Barbie and Atwood, John	2006	Archaeological and Historical Evaluations for the Proposed Airport Surveillance Detection Equipment, Model 3X (ASDE-3X), to serve Los Angeles International Airport (LAX), Los Angeles, Los Angeles County, California	Outside
LA-11561	Barre, Ole	2005	Proposed Federal Aviation Administration (FAA) Airport Surface Detection Equipment, Model X (ASDE-3X) to serve Los Angeles International Airport (LAX) Los Angeles, CA --Case #FAA040625A	Outside
LA-11973	Unknown	2011	Crenshaw/LAX Transit Corridor Project Final Environmental Impact Report/Final Environmental Impact Statement	Adjacent
LA-12079	Bonner, Wayne	2012	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate LA02942A (LA943 Douglas Family) 500 East Imperial Avenue, El Segundo, Los Angeles County, California	Outside
LA-12608	Fulton, Phil	2014	Cultural Resource Assessment Class I Inventory Verizon Wireless Services Posa Park Relo Facility, City of El Segundo, Los Angeles County, California	Outside
LA-13134	Bonner, Wayne H. and Kathleen A. Crawford	2013	Cultural Resources Records Search and Site Visit Results for AT&T Mobility, LLC Candidate CLU2377 (Standard Aero Building), 6201 West Imperial Highway, Los Angeles, Los Angeles County, California, CASPR No. 3551316006	Outside

LA-02904

In 1993, E. Gary Stickel et.al. of Environmental Research Archaeologists (ERA) published a draft Phase I Cultural Resources Literature Search in support of the West Basin Water Reclamation Project. The report was prepared as

part of a larger environmental impact statement for the West Basin Municipal Water District, based in Carson, California. The project area covered a pipeline route over an extensive area in the western coastal zone of the Los Angeles Basin, encompassing the cities of Inglewood, Hawthorne, Lawndale, Torrance, El Segundo, Manhattan Beach, Hermosa Beach, and portions of Redondo Beach. The pipeline system, described by the project was bound by Florence Avenue to the North, Western Avenue to the East, the coast line to the west, excluding the Los Angeles International Airport, and 190th Street to the south. As such, the LA-02904 project overlapped the entirety of the proposed Project site. Stickel et. al.'s Phase I research included a synopsis of the prehistoric context and record search results, but did not include physical survey or excavation. The result of the Phase I study was that the coastal region had a long and rich cultural chronology, and that potential for cultural sites including habitation sites and shell middens was relatively high for all settlement periods, From the Prehistoric Period up to and including the Mission (1769-1830) and Rancho (1830-1849) periods. Because of the breadth of the LA-02914 study area, individual sites were not identified within the current proposed Project area.

Previously Recorded Cultural Resources

The CHRIS records search indicates that twelve (12) cultural resources have been previously recorded within 1-mile of the Project site (Table 3), none of which intersect or are adjacent to the Project site. All of the previously recorded cultural resources within the records search area consist of built environment resources.

Table 3. Previously Recorded Cultural Resources Within a 1-Mile Radius of the Project Site

Primary (P-19-)	Trinomial (CA-LAN-)	Resource Age and Type	Resource Description	NRHP Eligibility	Recording Events	Proximity to Project Site
174101		Historic: Building	Hangar One; 5701 West Imperial Highway. This building is a two-story Spanish Colonial Revival building, designed by Gable & Wyant located at the cargo area of Los Angeles International Airport. This building is significant for its association with the southern California aviation industry and is the only remaining building from the original Los Angeles Municipal Airport.	1S; Individual property listed in NR by the Keeper. Listed in the CR. Eligible under Criterion A, Period of significance 1929-1942	1981 (C. Johnson McAvoy, Historic Resources Group)	Outside

Table 3. Previously Recorded Cultural Resources Within a 1-Mile Radius of the Project Site

Primary (P-19-)	Trinomial (CA-LAN-)	Resource Age and Type	Resource Description	NRHP Eligibility	Recording Events	Proximity to Project Site
187881		Historic: Building	329 Lomita Street; This building is a one-story, Minimal Traditional single family residence constructed in 1948 as part of a suburban housing development designed by Bill Ding for Green Hills Development Corporation.	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.	2004 (C. Taniguchi, MBA)	Outside
187882		Historic: Building	333 Lomita Street; This building is a one-story, Minimal Traditional single family residence constructed in 1948 as part of a suburban housing development designed by Bill Ding for Green Hills Development Corporation.	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.	2004 (C. Taniguchi, MBA)	Outside
187883		Historic: Building	337 Lomita Street; This building is a one-story, Minimal Traditional single family residence constructed in 1948 as part of a suburban housing development designed by Bill Ding for Green Hills Development Corporation. This building's main elevation is heavily altered	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.	2004 (C. Taniguchi, MBA)	Outside
187884		Historic: Building	345 Lomita Street; This building is a one-story, Minimal Traditional single family residence constructed in 1948 as part of a suburban housing development designed by Bill Ding for Green Hills Development Corporation.	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.	2004 (C. Taniguchi, MBA)	Outside

Table 3. Previously Recorded Cultural Resources Within a 1-Mile Radius of the Project Site

Primary (P-19-)	Trinomial (CA-LAN-)	Resource Age and Type	Resource Description	NRHP Eligibility	Recording Events	Proximity to Project Site
187885		Historic: Structure	El Segundo Water Tank; 400 Lomita Street; This structure is a steel, elevated water tank with a 200 gallon capacity. The entire tank structure is roughly 100 feet tall. It was constructed sometime between 1940 and 1950.	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing.	2002 (S. Younger & J. Marvin, LSA); 2004 (C. Taniguchi, MBA)	Outside
189416		Historic: Building	Standard Aero Building; 6201 W. Imperial Highway; This building is a two-story, Mid-Century Modern buildings constructed in 1946 and is part of a larger complex of similarly styled and dated buildings bordering and associated with the Los Angeles International Airport property.	6Z: Found ineligible for NR, CR or Local designation through survey evaluation.	2011 (K.A. Crawford, Crawford Historic Services)	Outside
190099		Historic: Building	Douglass family Mortuary; 500 East Imperial Highway; This building is a two-story, Modern style mortuary services building overlooking the airport. This building was constructed in 1958.	6Y: Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing	2012 (K. A. Crawford, Crawford Historic Services)	Outside
192402		Historic: Structure	This linear resource structure is the Standard Oil Spur & El Segundo line and is located immediately north of the Kramer Foundry. The line is a standard gauge, multitrack, running southwest to northeast. The track has compromised integrity.	6Z: Found ineligible for NR, CR or Local designation through survey evaluation.	2015 (Megan Wilson, Cogstone)	Outside
192684		Historic: Building	233 Kansas Street: This building is a 1-story, 18,000 square foot commercial building, constructed in the Mid Century modern style in 1956.	6Z: Found ineligible for NR, CR or Local designation through survey evaluation.	2019 (Margo Nayyar, Michael Baker Int.)	Outside

Table 3. Previously Recorded Cultural Resources Within a 1-Mile Radius of the Project Site

Primary (P-19-)	Trinomial (CA-LAN-)	Resource Age and Type	Resource Description	NRHP Eligibility	Recording Events	Proximity to Project Site
192685		Historic: Building	247 Kansas Street; This building is a one-story 5,000 square foot commercial office building constructed in the Prairie/ Contemporary style in 1948.	6Z: Found ineligible for NR, CR or Local designation through survey evaluation.	2019 (Margo Nayyar, Michael Baker Int.)	Outside
192686		Historic: Building	348 Kansas Street; this building is a one-story 15,000 square foot commercial building. It was originally constructed in 1952 as two separate buildings, but altered into a single large building in 1963	6Z: Found ineligible for NR, CR or Local designation through survey evaluation	2019 (Margo Nayyar, Michael Baker Int.)	Outside

2.2 Native American Coordination

NAHC Sacred Lands File Search

Dudek contacted the NAHC on October 17, 2019, and requested a review of the SLF. The NAHC replied via email on October 28, 2019, stating that the results of the SLF search were negative. The NAHC also suggested contacting five Native American individuals and/or tribal organizations who may have direct knowledge of cultural resources in or near the Project site.

- Andrew Salas, Chairperson, *Gabrieleno Band of Mission Indians, Kizh Nation*
- Anthony Morales, Chairperson, *Gabrieleno/Tongva San Gabriel Band of Mission Indians*
- Sandonne Goad, Chairperson, *Gabrielino/Tongva Nation*
- Robert Dorame, Chairperson, *Gabrielino Tongva Indians of California Tribal Council*
- Charles Alvarez, *Gabrielino-Tongva Tribe*

Dudek initiated no informal tribal consultation to these individuals for the proposed Project at this time. Documentation of Dudek's coordination with the NAHC is provided in Appendix C.

Assembly Bill 52 Consultation

The Project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives (that

have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed Project. The City of El Segundo contacted the five NAHC Native American individuals and/or tribal organizations on May 18, 2020. The Gabrieleno Band of Mission Indians, Kizh Nation, responded on May 29, 2020, affirming the Project lies within their Ancestral Tribal Territory and requested consultation with the City of El Segundo. During a subsequent meeting on August 13, 2020 with the Kizh Nation and City, the Kizh Nation provided information including historical maps showing the limits early Spanish-Mexican era ranchos, the distribution of early travel routes, and approximate locations of mapped Native American village locations in the region. The City received email correspondence from the Kizh Nation on August 13th and August 27th in 2020 that further provided information relating to traditional use of the area and documented villages located in what is now known as Playa Del Rey and Redondo Beach. Recommended mitigation was additionally provided for City review (Appendix K). The City sent a follow-up email on September 10, 2020 acknowledging receipt of information provided by the Kizh Nation and noting the provided information along with the proposed mitigation measures would be considered during preparation of the Draft EIR. The City sent an email to Kizh Nation on October 1, 2020 to state consultation is considered to be completed.

Senate Bill 18 Consultation

According to SB 18, the City has a responsibility to initiate consultation with tribes/groups listed on the California NAHC's official SB 18 contact list for amendment of a General Plan. SB 18 requires the City to send a letter to each contact on the NAHC's SB 18 list, extending an invitation for consultation. Tribes will have 90 days from receipt of the letter to request consultation. The City must also send a notice to all contacts 45 days prior to adopting the amended General Plan, as well as a third notice 10 days prior to any public hearing regarding the General Plan amendment. The Gabrieleno Band of Mission Indians, Kizh Nation, responded on May 29, 2020, affirming the Project lies within their Ancestral Tribal Territory and requested consultation with the City of El Segundo. During a subsequent meeting on August 13, 2020 with the Kizh Nation and City, the Kizh Nation provided information including historical maps showing the limits early Spanish-Mexican era ranchos, the distribution of early travel routes, and approximate locations of mapped Native American village locations in the region. The City received email correspondence from the Kizh Nation on August 13th and August 27th in 2020 that further provided information relating to traditional use of the area and documented villages located in what is now known as Playa Del Rey and Redondo Beach. Recommended mitigation was additionally provided for City review (Appendix K). The City sent a follow-up email on September 10, 2020 acknowledging receipt of information provided by the Kizh Nation and noting the provided information along with the proposed mitigation measures would be considered during preparation of the Draft EIR. The City sent an email to Kizh Nation on October 1, 2020 to state consultation is considered to be completed.

2.3 Building Development and Archival Research

Building development and archival research were conducted for the Project site in an effort to establish a thorough and accurate historic context for the property significance evaluation, and to confirm the building development history of the Project site and associated parcels.

City of El Segundo Planning and Building Safety Department

On February 25, 2020, Dudek visited the City of El Segundo Permit Center and obtained building permits and records filed after 1980 for properties within the Project site for new construction, demolition, alteration, and additions. Records filed before 1980 were unavailable for this property.

Los Angeles County Office of the Assessor

On February 25, 2020, Dudek researched property characteristic records for the Project site in order to establish dates of construction.

Historical Newspaper Search

Dudek reviewed historical newspapers covering the City of El Segundo and overall County of Los Angeles in an effort to understand the development of the Project site. All information obtained from the historical newspaper search was incorporated into the historic context.

Historical Aerial Photographs

Historic aerial photographs of the Project site were available from Nationwide Environmental Title Research LLC (NETR) maps for the years 1952, 1953, 1963, 1972, 1980, 1994, 2003, 2004, 2005, 2009, 2010, 2012, 2014, and 2016 and from the University of California, Santa Barbara (UCSB), FrameFinder Maps for the years 1927, 1937, 1941, 1947, 1952, 1956, 1960, 1962, 1965, 1967, 1971, 1976, 1979, 1983, and 1985. The earliest aerial photograph dates from 1927 and indicates that the Project area was rural farmland in the 1920s. While Sepulveda Boulevard (PCH/SR-1) appears in the 1927 photograph, the road and all minor roads around it do not appear paved. South of El Segundo Boulevard, the Chevron refinery site is visible and clearly makes up most of the area's development. By 1938, a faint airfield north of Imperial Highway (Mine's Field) is visible, but not well developed. By 1941, a much larger airfield (Los Angeles Municipal Airport) with several tarmacs and buildings appears on the west side of Sepulveda Boulevard (PCH/SR-1). The Project site remains undeveloped through the 1940s, but west of the Project area the residential streets begin to populate with single-family residence housing. In the 1941 aerial, two thin long buildings surrounding a central courtyard (identified as the former Mission Inn) and an automobile service station appear in the PCC – Fairfield Parking development area, on the corner northwest of the Palm Avenue and Sepulveda Boulevard (PCH/SR-1) intersection. In 1947, a complex of six small buildings appears at the Fairfield Inn and Suites development area, southwest of the Palm Avenue and Sepulveda Boulevard (PCH/SR-1) intersection. In 1947 as well, a few small commercial developments front onto Sepulveda Boulevard (PCH/SR-1) in the PCC – North development area. In the 1952 and 1956 aerial photographs, all properties remain unchanged and the majority of the Project site remains undeveloped. More multi-family housing appears west of the Project site, and some large-scale commercial/industrial development begins to appear on the east side of Sepulveda Boulevard (PCH/SR-1) (NETR 2020; UCSB 2020).

The Fairfield Inn & Suites building first appears in the 1960 aerial. Also in this aerial, the PCC – South development area, near 401 N Sepulveda Boulevard, appears as a storage site with closely packed vehicles staged on the back portion of the lot and a rectangular plan building at the northwest corner of Holly Avenue and Sepulveda Boulevard (PCH/SR-1). By 1962, another multi-story wing of the Fairfield Inn & Suites property along Indiana Street appears connected to the rest of the hotel property (NETR 2020; UCSB 2020).

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Between 1960 and 1962, some of the buildings at the automobile service station/gas station appear to have been removed, leaving just the main shop along Sepulveda Boulevard (PCH/SR-1) and the original gas station with canopy. Between 1965 and 1967, these two buildings are appear demolished and replaced with a new shop, shed, and gas station canopy in new locations. Also 1965 and 1967, the Mission Inn building in the PCC – Fairfield Parking development area appears to have been demolished (NETR 2020; UCSB 2020).

Between 1976 and 1979, the Aloft Hotel building at 525 N Sepulveda Boulevard first appears in aerials. The area to the south, which had once had a commercial property and car lot at the corner of Holly Avenue and Sepulveda Boulevard appears to become a surface parking lot for the hotel. Between 1979 and 1983, the commercial property and car lot were demolished and seamlessly incorporated into the hotel's surface parking lot (NETR 2020; UCSB 2020).

The last component in the Project area to be developed was the commercial restaurant property located in the PCC – North development area. This property was developed between 1994 and 2003. After 2003, there was no new development in the Project site. The city park property west of the project sites was developed between 1994 and 2003. Commercial and industrial properties east of Sepulveda Boulevard (PCH/SR-1) have been established by 2003 and no new additions appear; similarly, the single and multi-family neighborhoods west of the Project site also appear unchanged between 2003 and present (NETR 2020; UCSB 2020).

Sanborn Fire Insurance Maps

City of El Segundo Sanborn Fire Insurance Maps for the years 1917, 1929, and 1929 revised were reviewed for this Project, however, the Project site was not visible on any of the maps.

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3 Cultural Setting

3.1 Prehistoric Overview

Evidence for continuous human occupation in Southern California spans the last 10,000 years. Various attempts to parse out variability in archaeological assemblages over this broad period have led to the development of several cultural chronologies; some of these are based on geologic time, most are based on temporal trends in archaeological assemblages, and others are interpretive reconstructions. To be more inclusive, this research employs a common set of generalized terms used to describe chronological trends in assemblage composition: Paleoindian (pre-5500 BC), Archaic (8000 BC–AD 500), Late Prehistoric (AD 500–1769), and Ethnohistoric (post-AD 1769).

Paleoindian Period (pre-5500 BC)

Evidence for Paleoindian occupation in the region is tenuous. Our knowledge of associated cultural pattern(s) is informed by a relatively sparse body of data that has been collected from within an area extending from coastal San Diego, through the Mojave Desert, and beyond. One of the earliest dated archaeological assemblages in the region is located in coastal Southern California (though contemporaneous sites are present in the Channel Islands) derives from SDI-4669/W-12 in La Jolla. A human burial from SDI-4669 was radiocarbon dated to 9,590–9,920 years before present (95.4% probability) (Hector 2006). The burial is part of a larger site complex that contained more than 29 human burials associated with an assemblage that fits the Archaic profile (i.e., large amounts of ground stone, battered cobbles, and expedient flake tools). In contrast, typical Paleoindian assemblages include large stemmed projectile points, high proportions of formal lithic tools, bifacial lithic reduction strategies, and relatively small proportions of ground stone tools. Prime examples of this pattern are sites that were studied by Emma Lou Davis (1978) on Naval Air Weapons Station China Lake near Ridgecrest, California. These sites contained fluted and unfluted stemmed points and large numbers of formal flake tools (e.g., shaped scrapers, blades). Other typical Paleoindian sites include the Komodo site (MNO-679)—a multi-component fluted point site, and MNO-680—a single component Great Basined Stemmed point site (see Basgall et al. 2002). At MNO-679 and -680, ground stone tools were rare while finely made projectile points were common.

Warren et al. (2004) claimed that a biface manufacturing tradition present at the Harris site complex (SDI-149) is representative of typical Paleoindian occupation in the region that possibly dates between 10,365 and 8,200 BC (Warren et al. 2004). Termed San Dieguito (see also Rogers 1945), assemblages at the Harris site are qualitatively distinct from most others in region because the site has large numbers of finely made bifaces (including projectile points), formal flake tools, a biface reduction trajectory, and relatively small amounts of processing tools (see also Warren 1968). Despite the unique assemblage composition, the definition of San Dieguito as a separate cultural tradition is hotly debated. Gallegos (1987) suggested that the San Dieguito pattern is simply an inland manifestation of a broader economic pattern. Gallegos's interpretation of San Dieguito has been widely accepted in recent years, in part because of the difficulty in distinguishing San Dieguito components from other assemblage constituents. In other words, it is easier to ignore San Dieguito as a distinct socioeconomic pattern than it is to draw it out of mixed assemblages.

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The large number of finished bifaces (i.e., projectile points and non-projectile blades), along with large numbers of formal flake tools at the Harris site complex, is very different than nearly all other assemblages throughout the region, regardless of age. Warren et al. (2004) made this point, tabulating basic assemblage constituents for key early Holocene sites. Producing finely made bifaces and formal flake tools implies that relatively large amounts of time were spent for tool manufacture. Such a strategy contrasts with the expedient flake-based tools and cobble-core reduction strategy that typifies non-San Dieguito Archaic sites. It can be inferred from the uniquely high degree of San Dieguito assemblage formality that the Harris site complex represents a distinct economic strategy from non-San Dieguito assemblages.

San Dieguito sites are rare in the inland valleys, with one possible candidate, RIV-2798/H, located on the shore of Lake Elsinore. Excavations at Locus B at RIV-2798/H produced a toolkit consisting predominately of flaked stone tools, including crescents, points, and bifaces, and lesser amounts of groundstone tools, among other items (Grenda 1997). A calibrated and reservoir-corrected radiocarbon date from a shell produced a date of 6630 BC. Grenda (1997) suggested this site represents seasonal exploitation of lacustrine resources and small game and resembles coastal San Dieguito assemblages and spatial patterning.

If San Dieguito truly represents a distinct socioeconomic strategy from the non-San Dieguito Archaic processing regime, its rarity implies that it was not only short-lived, but that it was not as economically successful as the Archaic strategy. Such a conclusion would fit with other trends in Southern California deserts, where hunting-related tools were replaced by processing tools during the early Holocene (see Basgall and Hall 1990).

Archaic Period (8000 BC – AD 500)

The more than 2,500-year overlap between the presumed age of Paleoindian occupations and the Archaic period highlights the difficulty in defining a cultural chronology in Southern California. If San Dieguito is the only recognized Paleoindian component in the coastal Southern California, then the dominance of hunting tools implies that it derives from Great Basin adaptive strategies and is not necessarily a local adaptation. Warren et al. (2004) admitted as much, citing strong desert connections with San Dieguito. Thus, the Archaic pattern is the earliest local socioeconomic adaptation in the region (see Hale 2001, 2009).

The Archaic pattern, which has also been termed the Millingstone Horizon (among others), is relatively easy to define with assemblages that consist primarily of processing tools, such as millingstones, handstones, battered cobbles, heavy crude scrapers, incipient flake-based tools, and cobble-core reduction. These assemblages occur in all environments across the region with little variability in tool composition. Low assemblage variability over time and space among Archaic sites has been equated with cultural conservatism (see Basgall and Hall 1990; Byrd and Reddy 2002; Warren 1968; Warren et al. 2004). Despite enormous amounts of archaeological work at Archaic sites, little change in assemblage composition occurred until the bow and arrow was adopted around AD 500, as well as ceramics at approximately the same time (Griset 1996; Hale 2009). Even then, assemblage formality remained low. After the bow was adopted, small arrow points appear in large quantities and already low amounts of formal flake tools are replaced by increasing amounts of expedient flake tools. Similarly, shaped millingstones and handstones decreased in proportion relative to expedient, unshaped ground stone tools (Hale 2009). Thus, the terminus of the Archaic period is equally as hard to define as its beginning because basic assemblage constituents and patterns of manufacturing investment remain stable, complemented only by the addition of the bow and ceramics.

Late Prehistoric Period (AD 500-1769)

The period of time following the Archaic and before Ethnohistoric times (AD 1769) is commonly referred to as the Late Prehistoric (Rogers 1945; Wallace 1955; Warren et al. 2004); however, several other subdivisions continue to be used to describe various shifts in assemblage composition. In general, this period is defined by the addition of arrow points and ceramics, as well as the widespread use of bedrock mortars. The fundamental Late Prehistoric assemblage is very similar to the Archaic pattern, but includes arrow points and large quantities of fine debitage from producing arrow points, ceramics, and cremations. The appearance of mortars and pestles is difficult to place in time because most mortars are on bedrock surfaces. Some argue that the Ethnohistoric intensive acorn economy extends as far back as AD 500 (Bean and Shipek 1978). However, there is no substantial evidence that reliance on acorns, and the accompanying use of mortars and pestles, occurred before AD 1400. Millingstones and handstones persisted in higher frequencies than mortars and pestles until the last 500 years (Basgall and Hall 1990); even then, weighing the economic significance of millingstone-handstone versus mortar-pestle technology is tenuous due to incomplete information on archaeological assemblages.

3.2 Ethnographic Overview

The history of the Native American communities prior to the mid-1700s has largely been reconstructed through later mission-period and early ethnographic accounts. The first records of the Native American inhabitants of the region come predominantly from European merchants, missionaries, military personnel, and explorers. These brief, and generally peripheral, accounts were prepared with the intent of furthering respective colonial and economic aims and were combined with observations of the landscape. They were not intended to be unbiased accounts regarding the cultural structures and community practices of the newly encountered cultural groups. The establishment of the missions in the region brought more extensive documentation of Native American communities, though these groups did not become the focus of formal and in-depth ethnographic study until the early twentieth century (Bean and Shipek 1978; Boscana 1846; Geiger and Meighan 1976; Harrington 1934; Laylander 2000; Sparkman 1908; White 1963). The principal intent of these researchers was to record the precontact, culturally specific practices, ideologies, and languages that had survived the destabilizing effects of missionization and colonialism. This research, often understood as “salvage ethnography,” was driven by the understanding that traditional knowledge was being lost due to the impacts of modernization and cultural assimilation. Alfred Kroeber applied his “memory culture” approach (Lightfoot 2005: 32) by recording languages and oral histories within the region. Ethnographic research by Dubois, Kroeber, Harrington, Spier, and others during the early twentieth century seemed to indicate that traditional cultural practices and beliefs survived among local Native American communities.

It is important to note that even though there were many informants for these early ethnographies who were able to provide information from personal experiences about native life before the Europeans, a significantly large proportion of these informants were born after 1850 (Heizer and Nissen 1973); therefore, the documentation of pre-contact, aboriginal culture was being increasingly supplied by individuals born in California after considerable contact with Europeans. As Robert F. Heizer (1978) stated, this is an important issue to note when examining these ethnographies, since considerable culture change had undoubtedly occurred by 1850 among the Native American survivors of California.

Based on ethnographic information, it is believed that at least 88 different languages were spoken from Baja California Sur to the southern Oregon state border at the time of Spanish contact (Johnson and Lorenz 2006, p.

34). The distribution of recorded Native American languages has been dispersed as a geographic mosaic across California through six primary language families (Golla 2007).

Victor Golla has contended that one can interpret the amount of variability within specific language groups as being associated with the relative "time depth" of the speaking populations (Golla 2007: 80) A large amount of variation within the language of a group represents a greater time depth then a group's language with less internal diversity. One method that he has employed is by drawing comparisons with historically documented changes in Germanic and Romantic language groups. Golla has observed that the "absolute chronology of the internal diversification within a language family" can be correlated with archaeological dates (2007:71). This type of interpretation is modeled on concepts of genetic drift and gene flows that are associated with migration and population isolation in the biological sciences.

The tribes of this area have traditionally spoken Takic languages that may be assigned to the larger Uto–Aztecan family (Golla 2007, p. 74). These groups include the Gabrielino (alternately Gabrieleño), Cahuilla, and Serrano. Golla has interpreted the amount of internal diversity within these language-speaking communities to reflect a time depth of approximately 2,000 years. Other researchers have contended that Takic may have diverged from Uto–Aztecan ca. 2600 BC–AD 1, which was later followed by the diversification within the Takic speaking tribes, occurring approximately 1500 BC–AD 1000 (Laylander 2000).

Gabrielino (Gabrieleño)/Tongva

The archaeological record indicates that Project site and vicinity was occupied by the Gabrieleño, who arrived in the Los Angeles Basin around 500 B.C. Surrounding cultural groups included the Chumash and Tataviam to the northwest, the Serrano and Cahuilla to the northeast, and the Juaneño and Luiseño to the southeast.

The name "Gabrieliño" or "Gabrieleño" denotes those people who were administered by the Spanish from the San Gabriel Mission, which included people from the Gabrieleño area proper as well as other social groups (Bean and Smith 1978; Kroeber 1925). Therefore, in the post-Contact period, the name does not necessarily identify a specific ethnic or tribal group. The names by which Native Americans in southern California identified themselves have, in some cases, been lost. Many modern Gabrieleño identify themselves as the Tongva (King 1994), within which there are a number of regional bands. Though the names "Tongva" or "Gabrieleño" are the most common names used by modern Native American groups, and are recognized by the Native American Heritage Commission, there are groups within the region that self-identify differently, such as the Gabrielino Band of Mission Indians - Kizh Nation. In order to be inclusive of the majority of tribal entities within the region, the name "Tongva" or "Gabrieleño" are used within this report.

Tongva lands encompassed the greater Los Angeles Basin and three Channel Islands, San Clemente, San Nicolas, and Santa Catalina. The Tongva established large, permanent villages in the fertile lowlands along rivers and streams, and in sheltered areas along the coast, stretching from the foothills of the San Gabriel Mountains to the Pacific Ocean. A total tribal population has been estimated of at least 5,000 (Bean and Smith 1978), but recent ethnohistoric work suggests a number approaching 10,000 (O'Neil 2002). Houses constructed by the Tongva were large, circular, domed structures made of willow poles thatched with tule that could hold up to 50 people (Bean and Smith 1978). Other structures served as sweathouses, menstrual huts, ceremonial enclosures, and probably communal granaries. Cleared fields for races and games, such as lacrosse and pole throwing, were created adjacent to Tongva villages (McCawley 1996). Archaeological sites composed of villages with various sized structures have been identified.

The largest, and best documented, ethnographic Tongva village in the vicinity was that of *Yanga* (also known as Yaangna, Janga, and Yabit), which was in the vicinity of the downtown Los Angeles (McCawley 1996:56-57; NEA and King 2004). This village was reportedly first encountered by the Portola expedition in 1769. In 1771, Mission San Gabriel was established. Yanga provided a large number of the recruitments to this mission; however, following the founding of the Pueblo of Los Angeles in 1781, opportunities for local paid work became increasingly common, which had the result of reducing the number of Native American neophytes from the immediately surrounding area (NEA and King 2004). Mission records indicate that 179 Gabrieleno inhabitants of Yanga were recruited to San Gabriel Mission (King 2000; NEA and King 2004: 104). Based on this information, Yanga may have been the most populated village in the Western Gabrieleno territory. Second in size, and less thoroughly documented, the village of Cahuenga was located slightly closer, just north of the Cahuenga Pass.

Father Juan Crespi passed through the area near Yanga on August 2-3, 1769. The pertinent sections from his translated diary are provided here:

> Sage for refreshment is very plentiful at all three rivers and very good here at the Porciúncula [the Los Angeles River]. At once on our reaching here, eight heathens came over from a good sized village encamped at this pleasing spot among some trees. They came bringing two or three large bowls or baskets half-full of very good sage with other sorts of grass seeds that they consume; all brought their bows and arrows but with the strings removed from the bows. In his hands the chief bore strings of shell beads of the sort that they use, and on reaching the camp they threw the handfuls of these beads at each of us. Some of the heathens came up smoking on pipes made of baked clay, and they blew three mouthfuls of smoke into the air toward each one of us. The Captain and myself gave them tobacco, and he gave them our own kind of beads, and accepted the sage from them and gave us a share of it for refreshment; and very delicious sage it is for that purpose.
>
> We set out at a half past six in the morning from this pleasing, lush river and valley of Our Lady of Angeles of La Porciúncula. We crossed the river here where it is carrying a good deal of water almost at ground level, and on crossing it, came into a great vineyard of grapevines and countless rose bushes having a great many open blossoms, all of it very dark friable soil. Keeping upon a westerly course over very grass-grown, entirely level soils with grand grasses, on going about half a league we came upon the village belonging to this place, where they came out to meet and see us, and men, women, and children in good numbers, on approaching they commenced howling at us though they had been wolves, just as before back at the spot called San Francisco Solano. We greeted them and they wished to give us seeds. As we had nothing at hand to carry them in, we refused [Brown 2002:339-341, 343].

The Portola party passed westward through the La Brea Tar Pits area (CA-LAN-159) the following day. This was a known area of Native American use for hunting and the gathering of tar and other area-specific resources (Westec 1983). A pertinent excerpt from Father Juan Crespi's August 3, 1769 diary entry is provided here:

> The Captain told me that when they scouted here, in a ravine about half a league to the westward they came upon about forty springs of pitch, or tar, boiling in great surges up out of the ground, and saw very large swamps of this tar, enough to have caulked many ships. [Brown 2002:341]

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Upon leaving the La Brea Tar Pits, the Portola expedition continued westward, camping on August 4, 1769 near what is now the route Interstate 405 before heading northward into the mountains. Details of the day's travels are provided below:

> At a quarter past six in the morning we set out from this copious spring at the San Esteban Sycamores .... We pursued our way northwestward and on going about a quarter-league [0.85 mile], we came into a little flat hollow between small knolls, and then onward across level tablelands of dark friable soil....we turned west-northwestward and on going two hours, all over level soil, came to the watering place: two springs rising at the foot of a high tableland, their origin being higher up on the large plain here....At this spot we came upon a village at the aforesaid tableland and as soon as we arrived and set up camp, six very friendly, compliant tractable heathens came over, who had their little houses roofed with grass, the first we have been seeing of this sort. They brought four or six bowls of the usual seeds and good sage which they presented to our Captain. On me they bestowed a good-sized string of the sort of beads they all have, made of white seashells and red ones, though not very bright-colored, that look to be coral. [Brown 2002:345-349]

The name of this village referenced to be near the August 4, 1769 Portola camp is unknown, and would have been located approximately 3 miles from the named village near Santa Monica (*Kuruvunga*) and 5 miles from *Sa'anga* near the mouth of Ballona Creek. Sa'anga, likely within a mile of the present Project site, has also been commonly referred to as *Guaspet* or *Guashna*, (NEA and King 2004), *Saan* (Kroeber 1925), or *Saa'anga* or *Waachnga* (McCawley 1996). Ethnohistoric research completed by John Johnson (1988) pertaining to the inhabitants of San Clemente Island and Santa Catalina Island has indicated that there were many marriage ties between these islands and this village in the vicinity of the Ballona wetlands. Mission records indicate that a total of 95 neophytes came from this village; 87 of these individuals at Mission San Gabriel and the remaining eight at Mission San Fernando (NEA and King 2004). These records further suggest that marriage was common with the surrounding outside villages, but perhaps most often occurring with members of the large village of Yanga.

The Tongva subsistence economy was centered on gathering and hunting. The surrounding environment was rich and varied, and the tribe exploited mountains, foothills, valleys, deserts, riparian, estuarine, and open and rocky coastal eco-niches. Like that of most native Californians, acorns were the staple food (an established industry by the time of the early Intermediate Period). Acorns were supplemented by the roots, leaves, seeds, and fruits of a wide variety of flora (e.g., islay, cactus, yucca, sages, and agave). Fresh water and saltwater fish, shellfish, birds, reptiles, and insects, as well as large and small mammals, were also consumed (Bean and Smith 1978: 546; Kroeber 1925; McCawley 1996).

A wide variety of tools and implements were used by the Tongva to gather and collect food resources. These included the bow and arrow, traps, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks. Groups residing near the ocean used oceangoing plank canoes and tule balsa canoes for fishing, travel, and trade between the mainland and the Channel Islands (McCawley 1996).

Tongva people processed food with a variety of tools, including hammerstones and anvils, mortars and pestles, manos and metates, strainers, leaching baskets and bowls, knives, bone saws, and wooden drying racks. Food was consumed from a variety of vessels. Catalina Island steatite was used to make ollas and cooking vessels (Blackburn 1963; Kroeber 1925; McCawley 1996).

At the time of Spanish contact, the basis of Tongva religious life was the Chinigchinich cult, centered on the last of a series of heroic mythological figures. Chinigchinich gave instruction on laws and institutions, and also taught the people how to dance, the primary religious act for this society. He later withdrew into heaven, where he rewarded the faithful and punished those who disobeyed his laws (Kroeber 1925). The Chinigchinich religion seems to have been relatively new when the Spanish arrived. It was spreading south into the Southern Takic groups even as Christian missions were being built and may represent a mixture of native and Christian belief and practices (McCawley 1996).

Deceased Tongva were either buried or cremated, with inhumation more common on the Channel Islands and the neighboring mainland coast and cremation predominating on the remainder of the coast and in the interior (Harrington 1942; McCawley 1996). Cremation ashes have been found in archaeological contexts buried within stone bowls and in shell dishes (Ashby and Winterbourne 1966), as well as scattered among broken ground stone implements (Cleland et al. 2007). Archaeological data such as these correspond with ethnographic descriptions of an elaborate mourning ceremony that included a wide variety of offerings, including seeds, stone grinding tools, otter skins, baskets, wood tools, shell beads, bone and shell ornaments, and projectile points and knives. Offerings varied with the sex and status of the deceased (Johnston 1962; McCawley 1996; Reid 1926). At the behest of the Spanish missionaries, cremation essentially ceased during the post-Contact period (McCawley 1996).

3.3 Historic Period Overview

Post-Contact history for the State of California is generally divided into three periods: the Spanish Period (1769–1821), Mexican Period (1821–1848), and American Period (1846–present). Although Spanish, Russian, and British explorers visited the area for brief periods between 1529 and 1769, the Spanish Period in California begins with the establishment in 1769 of a settlement at San Diego and the founding of Mission San Diego de Alcalá, the first of 21 missions constructed between 1769 and 1823. Independence from Spain in 1821 marks the beginning of the Mexican Period, and the signing of the Treaty of Guadalupe Hidalgo in 1848, ending the Mexican–American War, signals the beginning of the American Period when California became a territory of the United States.

Spanish Period

Spanish explorers made sailing expeditions along the coast of southern California between the mid-1500s and mid-1700s. In search of the legendary Northwest Passage, Juan Rodríquez Cabrílo stopped in 1542 at present-day San Diego Bay. With his crew, Cabrílo explored the shorelines of present Catalina Island as well as San Pedro and Santa Monica Bays. Much of the present California and Oregon coastline was mapped and recorded in the next half-century by Spanish naval officer Sebastián Vizcaíno. Vizcaíno's crew also landed on Santa Catalina Island and at San Pedro and Santa Monica Bays, giving each location its long-standing name. The Spanish crown laid claim to California based on the surveys conducted by Cabrílo and Vizcaíno (Bancroft 1885; Gumprecht 2001).

More than 200 years passed before Spain began the colonization and inland exploration of Alta California. The 1769 overland expedition by Captain Gaspar de Portolá marks the beginning of California's Historic period, occurring just after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. With a band of 64 soldiers, missionaries, Baja (lower) California Native Americans, and Mexican civilians, Portolá established the Presidio of San Diego, a fortified military outpost, as the first Spanish settlement in Alta California. In July of 1769, while Portolá was exploring southern California,

Franciscan Fr. Junípero Serra founded Mission San Diego de Alcalá at Presidio Hill, the first of the 21 missions that would be established in Alta California by the Spanish and the Franciscan Order between 1769 and 1823 (Bancroft 1885; Gumprecht 2001).

The Portolá expedition first reached the present-day boundaries of Los Angeles in August 1769, thereby becoming the first Europeans to visit the area. Father Crespi named "the campsite by the river Nuestra Señora la Reina de los Angeles de la Porciúncula" or "Our Lady the Queen of the Angels of the Porciúncula." Two years later, Friar Junípero Serra returned to the valley to establish a Catholic mission, the Mission San Gabriel Arcángel, on September 8, 1771. In 1795, Fr. Fermin Lasuen ordered a new report on possible mission sites, and the Francisco Reyes Rancho was ultimately chosen as the new mission site. Mission San Fernando Rey de España was formally founded in 1797. Shortly thereafter, many of the local Gabrielino and Tataviam people were removed from their homeland, relocated to the mission, and their native lifeways taken away (Bancroft 1885; Gumprecht 2001; Kyle 2002).

Mexican Period

There was relatively little growth within Alta California in the early nineteenth century, including the threat of foreign invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion and warfare, New Spain (Mexico and the California territory) won independence from Spain in 1821. In 1822, the Mexican legislative body in California ended isolationist policies designed to protect the Spanish monopoly on trade, and decreed California ports open to foreign merchants (Dallas 1955; Gumprecht 2001).

Extensive land grants were established in the interior during the Mexican Period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. Rancho Sausal Redondo, where the proposed Project is located, was provisionally given to Antonio Ygnacio Avila in 1822, and then officially granted by Governor Juan Alvarado to Avila in 1837. The 22,459-acre Rancho encompasses present day Playa Del Rey, El Segundo, Manhattan Beach, Lawndale, Hermosa Beach, Inglewood, Hawthorne, and Redondo Beach (Hoffman 1862; Scheerer 1938).

During height of the rancho period (1833–1846), the greatest number of grants were awarded and landowners largely focused on the cattle industry, devoting large tracts to grazing. Cattle hides became a primary southern California export, providing a commodity to trade for goods from the east and other areas in the United States and Mexico. At its height, Rancho Sausal Redondo supported 5,000 head of cattle. The number of nonnative inhabitants increased during this period because of the influx of explorers, trappers, and ranchers associated with the land grants. The rising California population contributed to the introduction and rise of diseases foreign to the Native American population, who had no associated immunities (Dallas 1955; Scheerer 1938).

American Period

War in 1846 between Mexico and the United States precipitated the Battle of Chino, a clash between resident Californios and Americans in the San Bernardino area. The Mexican-American War ended with the Treaty of Guadalupe Hidalgo in 1848, ushering California into its American Period. California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. Territories. After petitioning the Land Commission Board for the rights to his rancho, Avila's petition was confirmed for Rancho Sausal Redondo in 1855 (Figure 2). After Avila's death in 1858, the rancho passed to his heirs and within a decade, his widow and children had auctioned the 22,459-acre rancho to Sir Robert Burnett in 1860 for $29,500. Burnett

also purchased Rancho Aguaje de la Centinela, immediately to the north, from Bruno Avila the same year (Scheerer 1938; Waugh 2003).

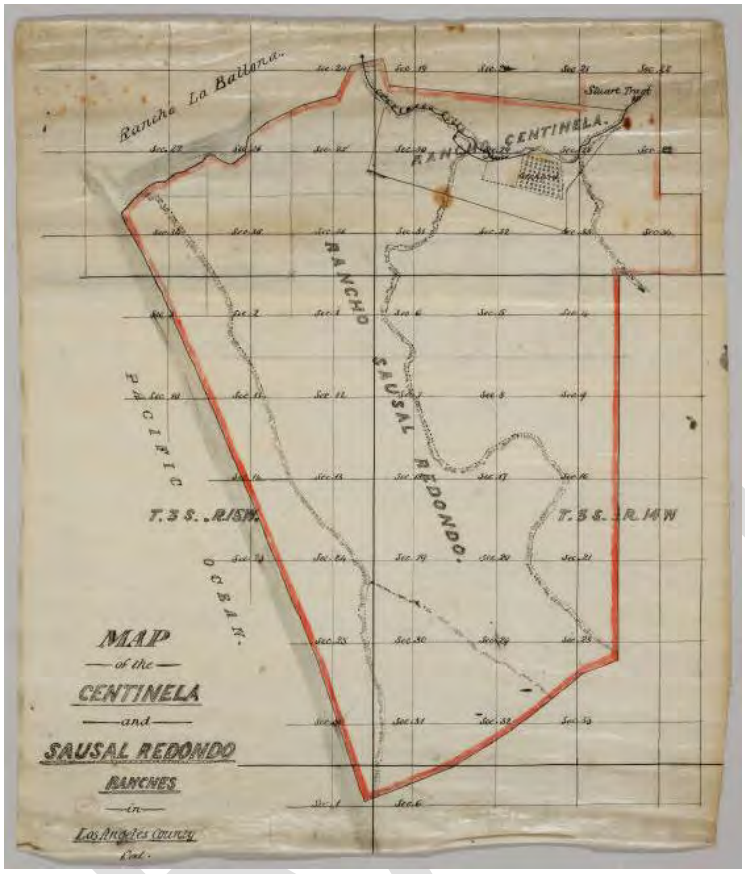


Figure 2. Map of Centinela and Sausal Redondo ranchos (Special Collections, Charles E. Young Library, UCLA)

In 1873 Catherine Grace Freeman and husband Daniel Freeman, both Canadians, leased the entirety of both ranchos from Burnett. The Freemans had come to the area for Catherine's health, but also purchased sheep to run on the rancho. Catherine died in 1877, however, and afterwards the executor of her estate subleased 1,500 acres of Rancho Sausal Redondo to recuperate funds. However, because the remainder of Sausal Redondo was so large, the survey and boundaries were attacked regularly in court by settlers, claimants, and squatters. The argument was that large land grants "deprived" citizens of public lands. These cases were successful elsewhere, but Burnett maintained rancho Sausal Redondo until he sold 12,737 acres of it to Daniel Freeman in 1885. In fall 1885, Freeman purchased the remainder 10,000-some acres of Sausal Redondo, as well as Rancho Aguaje de la Centinela (Scheerer 1938).

With his new acquisition, Daniel Freeman immediately began to sell off portions of the rancho to land speculators and developers, taking part of the 1880s real estate boom trend. By the close of 1886, Freeman had sold and subdivided some 7,700 acres, often in conjunction with real estate development corporations the Ballona Harbor and Improvement Company and the Centinela-Inglewood Land Company (Scheerer 1938).

Historical Overview of El Segundo

In 1911, Standard Oil Company sent a team of five men to the Los Angeles area to scout out a location for a second oil refinery after the success of their El Primero refinery in Richmond, California. The team chose the El Segundo location for three reasons. First, it was adjacent to the seashore, which was necessary for tanker access. Second, the land was undeveloped, which kept costs down. Finally, the location was near enough a population center to provide them with the necessary workforce. The Standard Oil Company bought 840 acres in June 1911 for their refinery, named El Segundo (the second one). The refinery opened for business in November 1911. At the same time, the El Segundo Land and Improvement Company bought another 1,470 acres of townsite from J.S. Vosberg, who had owned the land and dry farmed there since the 1880s. Less than six years later, the City of El Segundo incorporated in January 1917 (Brighton 2014; Harper and Smith 2008; Hunter 1991).

The major town development was located along Ballona Avenue (now El Segundo Boulevard) and Richmond Street. The next street east of Richmond, Main Street, formed the western boundary of the Standard Oil Refinery site (Figure 3). For the first years after incorporation, the local economy of El Segundo was focused solely on the oil industry, as the refinery provided jobs for 2,000 employees. Between 1911 and 1912, the town's assessed value increased from $328,000 to $1,168,515. By 1915, El Segundo had modern amenities and utilities such as paved roads, streetlights, electric home service, telephones, and a Pacific Electric rail stop for commuters. Growth could not keep up with demand, and for a few years, a "tent city" sprung up to supply much-needed temporary housing and commercial storefronts. The refinery at El Segundo benefitted from the Southern California oil booms of the 1920s, including the discovery of new oil fields at Huntington Beach in 1920, Long Beach and Santa Fe Springs in 1921, Dominguez Oil field in 1923, and Inglewood in 1924. Despite the large gains at Standard Oil throughout the country, the national company was broken into smaller companies after an antitrust crackdown. Standard Oil then became Standard Oil of California in 1926. By the 1930s, Standard Oil of California began using the "Chevron" name for oil products, later transitioning to "Calso" in the 1940s and 1950s before returning to Chevron. Standard Oil would not officially change the company name until 1984 (Brighton 2014; CDC 2013; Harper and Smith 2008; Hunter 1991; UVM 2011).

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Figure 3. Birdseye view of the Standard Oil Refinery in El Segundo, January 25, 1926 (California Historical Society Collection, 1860-1960, USC Digital Library)

By 1925, El Segundo's population was 2,700. Mine's Field, which later became the Los Angeles Municipal Airport and then LAX was founded north of the refinery in 1927. The airfield and later airport played a large role in the civil defense of Los Angeles during World War II, and as a result of its proximity, El Segundo became the living community for aviation and defense contractors. In 1927, Watt L. Moreland, of Moreland Aircraft, built the first factory on a 15-acre tract just south of Mines Field. Douglas Aircraft, which had been founded in Santa Monica, obtained this factory in 1932 and eventually negotiated with the Northrop Division of the Douglas Aircraft Company to take it over. The Northrop Division (later renamed the El Segundo Division) produced planes at the factory such as the Gamma 2B, Delta 8-passenger, Basic Trainer (BT)-1 bomber and A-17 jet. In 1937, John Northrop left Douglas Aircraft to start his own company closer to Hawthorne, which he named Northrop Aircraft Incorporated. That same year, the City of Los Angeles purchased Mines Field and renamed the site the Los Angeles Municipal Airport. This included the construction of many modern buildings at the site to attract new airline services. Despite this, the Los Angeles Municipal Airport would not become a principal hub until after World War II (Hunter 1991; Masters 2012; Mulcahy 2012).

During World War II, the El Segundo Division of Douglas solely produced military aircraft, including the DC-5 transport, SBD Dauntless dive-bomber and the A-20 Havoc medium bomber. In the 1930s and 1940s, other aviation industrial giants such as Hughes Aircraft and North American Aviation (Rockwell), continued to grow their manufacturing plants and offices in El Segundo (Brighton 2014; Harper and Smith 2008; Hunter 1991; Mulcahy 2012).

By the end of World War II, the Los Angeles Municipal Airport was well positioned to take advantage of the burgeoning aviation industry in El Segundo. New runways, passenger terminals, hangars, control tower, and maintenance sheds were constructed and ready for use, and four major airlines – American, Trans World, United, and Western -- abandoned Lockheed Field in Burbank in favor of the expanded municipal airport in El Segundo.

Pan Am joined them in January 1947. In 1949, the site was renamed the Los Angeles International Airport (LAX) (Masters 2012).

In 1954, the Los Angeles Air Force Base on North Douglas Street was established. This base was the only active-duty military base in Los Angeles and supported the 61st Air Base Wing and the Space and Missile Systems Center. In 1955, Ramo-Wooldridge purchased 40 acres on the southeast corner of Aviation Boulevard and El Segundo Boulevard, forming the research and development site to be paired with the base. The air force base kept the aviation and research production in the region working, as the United States military turned towards space flight. By 1956, the aerospace industry had overtaken oil as the major industry and job provider in El Segundo. Other aerospace companies established offices in the area such as Boeing in 1957 (Hunter 1991; Mulcahy 2012).

In 1958, Pereira & Luckman, as well as other Southern California architects such as Paul R. Williams and Welton Becket, were contracted to redesign LAX for the "jet-age." This called for a series of terminals and parking structures connected by a glass and steel dome (later reimagined as the LAX theme building) at the center (Figure 4). The airport expanded further in the 1980s to prepare for the 1984 summer Olympics to be held in Los Angeles, adding additional terminals and road levels for arriving and departing passengers (Groot 2019).



Figure 4. Aerial View of LAX and Garrett Corporation, 1964 (Security Pacific National Bank Collection, LAPL)

All of these industrial-based developments in El Segundo led to the decentralization of business and housing from the traditional city core, unlike other small Southern California cities which developed outside of their traditional core in the post-war years. Instead, businesses set up offices in the commercial Smoky Hollow district, along Sepulveda Boulevard, or closer to LAX. Other businesses in El Segundo underwent nominal changes in the latter half of the 20th century, such as Standard Oil, which changed its name officially to Chevron Corporation in 1984, rebranding the El Segundo Oil refinery as well (Brighton 2014; Chevron 2020; Harper and Smith 2008; Hunter 1991).

Beginning in the 1980s, commercial and office buildings began to appear along Sepulveda Boulevard, between Grand Avenue and El Segundo Boulevard. In 1980, a large business park on the northeast corner of Grand Avenue and Sepulveda Boulevard (Pacific Coast Hwy) was established with three large, concrete and tinted glass buildings. One of the most notable developments was the construction of the Pacific Corporate Towers at Lincoln and Grand

Avenues, built in 1983. That same year, 144 additional commercial properties were built in El Segundo, totaling over 1 million square feet of commercial space. In 1990, toy company, Mattel, moved its world headquarters to El Segundo, also just off Sepulveda Boulevard. In the late 1990s, strip malls with anchoring groceries stores filled in the remaining available space along Sepulveda Boulevard (Commercial Café 2020; El Segundo Chamber of Commerce 2017).

3.4 Project Site History

With the rebranding of LAX as an international airport in 1949, large hotels began to be established along Sepulveda Boulevard, the major artery leading to LAX from the south. Prior to the establishment of the hotel, there had been a modest multi-family residential complex at the subject property, surrounded by agricultural fields. In 1957, the City of El Segundo approved preliminary sketches for a $1.5 million hotel, the largest ever in the city, proposed for development by Allen E. Siegal a Hollywood-based hotelier and son, Marc Siegal. The plans, by Southern California architect Raymond A. Stockdale, proposed a 220-room 4-story hotel called the International Thunderbird Hotel and Restaurant. The new hotel was proposed for Sepulveda Boulevard just 1.5-miles south of LAX terminals. The sketches detail a 4-story hotel with two elevators and a swimming pool as well as space on the ground floor for retail shops, a drug store, barbershop, and dry cleaners (Figure 5). The plans also called for a two-story building with a dining room, coffee shop, cocktail lounge, banquet hall for 400 people, and smaller "key room" or conference room. In June 1958, construction of the hotel began (ESH 1957, 1958a, 1958b; UCSB 2020).



Figure 5. Thunderbird Hotel postcard, Hotels subject file, Local History Collection, El Segundo Public Library

In April 1959, the hotel and five retail stores opened to some fanfare. The retail shops included De Mere fashions, Flair for Beauty, Allen Rabinoff's Shop for Men, Thunderbird Sundries, and Thunderbird Barbershop. The hotel quickly became an activity and event center for the local El Segundo Community, hosting social club dinners and fundraisers. Just six months after their opening, co-owner Marc Siegal submitted an application for zone changes and permits to erect a 7-story, 180-room hotel wing on the rear (west) portion of the property. The new wing was designed by Maxwell Starkham & Associates and contractor Tom Fellows & Associates, and completed in 1961. The construction of the new wing incorporated the "lift-slab" technique to erect the reinforced concrete and curtain wall exterior (Figure 6). The new wing was the first of ten new hotel projects by the father-and-son Siegal team. The Seigals proceeded to open Thunderbird Hotels in San Francisco (1961), Oakland (1962), and two in Hollywood (1963) as part of this three-year expansion plan (ESH 1959a, 1959b; IPT 1963; LAT 1961; Oakland Tribune 1961; SFE 1961).

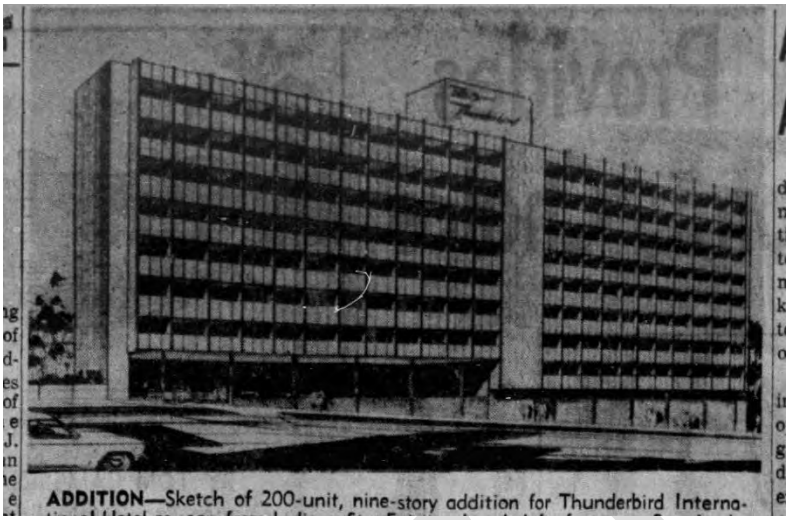


Figure 6. Indiana Street Wing Addition (LAT 1961)

Minor changes to the property occurred in the 1960s. In 1964, a large surface parking lot was added north of the hotel. In 1965, the hotel was sold to the Hacienda hotel chain based in Las Vegas, Nevada and the hotel name changed to Hacienda Hotel. The hotel sign was changed in 1966. In 1968, the Thunderbird Coffee Shop was converted to the Hukilau Tiki Bar, and a large, abstract, wood boat prow-bird sculpture was added to the front of the restaurant wing (ESH 1964, 1965, 1968; Hotels subject file, Local History Collection, El Segundo Public Library).

In 1979, the hotel added another wing. The 9-story "South Tower" was added as part of a three-phase improvement project. Later this tower was sold and became an independent hotel. Today it is the Aloft Hotel. Probably the biggest change for the property came in 1987, when the entire exterior of the hotel was remodeled by A.C. Martin & Associates (Figure 7). Remodeling resulted in the loss of the original decorative colored curtain wall paneling and pierced, Mid-century Modern-style screens on the main, Sepulveda Boulevard elevations (ESH 1979; Hotels subject file, Local History Collection, El Segundo Public Library).



Figure 7. Left: view of decorative screen before remodeling, 1980 (Herald Examiner Collection, LAPL); right: same view in 2020 (IMG 8870)

3.5 Project Site Architectural Styles

Mid-Century Modern (1933-1965)

Mid-century Modern style is reflective of International and Bauhaus styles popular in Europe in the early 20th century. This style and its living designers (e.g., Mies Van der Rohe and Gropius) were disrupted by WWII and moved to the United States. During WWII, the United States established itself as a burgeoning manufacturing and industrial leader, with incredible demand for modern buildings to reflect modern products in the mid-20th century. As a result, many industrial buildings are often "decorated boxes"—plain buildings with applied ornament to suit the era and appear more modern without detracting from the importance of the activity inside the building. Following WWII, the United States had a focus on forward thinking, which sparked architectural movements like Mid-Century Modern. Practitioners of the style were focused on the most cutting-edge materials and techniques. Architects throughout Southern California implemented the design aesthetics made famous by early Modernists like Richard Neutra and Frank Lloyd Wright, who created a variety of modern architectural forms. Like other buildings of this era, Mid-century Modern buildings had to be quickly assembled, and use modern materials that could be mass-produced. Both residences and offices designed in this style expressed its structure and materials, displayed large expanses of glass, and had an open interior plan (McAlester 2013; Morgan 2004).

Characteristics of the Mid-Century Modern style:

- One- to two-stories in height
- Low, boxy, horizontal proportions
- Simple geometric forms with a lack of exterior decoration
- Commonly asymmetrical
- Flat roofed without coping at roof line; flat roofs hidden behind parapets or cantilevered canopies
- Expressed post-and-beam construction in wood or steel
- Exterior walls are flat with smooth sheathing and typically display whites, buffs, and pale pastel colors
- Mass-produced materials
- Simple windows (metal or wood) flush-mounted and clerestory
- Industrially plain doors
- Large window groupings

3.6 Project Site Architects and Designers

Architect: Raymond A. Stockdale, AIA (1905-1998)

Stockdale was born in London in 1905 and emigrated to the United States in 1922 as a young man. His family lived in Santa Monica and his father worked managing a café. Stockdale worked first as general contractor and draftsman in the 1930s, then received his architect's license in 1943. He joined the Southern California chapter of the American Institute of Architects (AIA) in 1943. Stockdale tended to design residences, banks, and recreation centers in the greater Los Angeles Area in popular modern styles throughout his career such as Mid-Century Modernism, Art Moderne, and New Formalism. He is not associated with any specific styles or trends.

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A sample of Stockdale's known work is included below (Koyl 1962; LAC 2020; LAT 1963, 1988; Pomona Progress Bulletin 1958; TJMM 1962):

- Gas station, 110 S Barrington Avenue, Brentwood, Los Angeles (1938)
- Stockdale House, 3256 Hillock Drive,Hollywood Hills, Los Angeles (1949)
- Pomona Grove Apartments, East End Avenue, Pomona (1958)
- Bank of America building, 22241 Pacific Coast Highway, Malibu (1962)
- Malibu Sports and Raquet Club, Malibu (1963)
- Pan American Bank, 3626 E First Street, Los Angeles (1965)

Maxwell Starkham & Associates (1953-present)

Maxwell Starkham & Associates was a Los Angeles-based architecture firm that operated from 1953 to 1987. Mark Starkman, the founder was born in Toronto, Canada, served with the Royal Canadian Engineers during World War II, and then earned an architecture degree from University of Manitoba. Starkman moved to Los Angeles in 1950 and briefly worked for Richard Neutra's firm. The firm began Starkman designing tract homes in the post-World War II housing boom in Southern California. Starkman partnered with Fritz Reichl in the mid-1950s, starting the Maxwell Starkman & Associates firm. The firm specialized in investor-started commercial development with quick turnaround in order to return profits to investors. These were typically office buildings, luxury condominiums, hotels, and mixed-use projects. Later in the company's history they developed specialized large-scale projects such as Melodyland Theater in Anaheim, and the Sony Pictures Plaza in Culver City. Starkman retired from the firm in 1987 and the firm continues the same work through present (LAT 2004).

Notable examples of Maxwell Starkham & Associates work consists of (LAT 2004; PCAD 2020):

- Glendale Federal Savings and Loan, Glendale, 1959
- Melodyland Theater, Anaheim, 1963
- First Los Angeles Bank, Century City, 1975
- Cedars-Sinai Medical Center, Office Buildings, Los Angeles, 1978-1980
- Filmland Corporate Center (now Sony Pictures plaza), Culver City, 1986

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4 Field Survey

4.1 Methods

Dudek Senior Architectural Historian Sarah Corder, MFA, conducted a pedestrian survey of the Fairfield Inn & Suites property for historic built environment resources on February 24, 2020. The survey entailed walking around the exteriors of the Fairfield Inn & Suites property, documenting each wing with notes and photographs, specifically noting character-defining features, spatial relationships, observed alterations, and examining any historic landscape features on the property. The Fairfield Inn & Suites property is entirely developed and contains no exposed sediment; therefore, an archaeological survey was not completed. Dudek documented the fieldwork using field notes, digital photography, close-scale field maps, and aerial photographs. Photographs of the subject property were taken with a digital camera. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California, office.

4.2 Results

During the course of the pedestrian survey, Dudek identified three buildings at Fairfield Inn & Suites property over 45 years old requiring recordation and evaluation for historical significance: the Main Hotel Volume (1959), the Conference Room and Restaurant Wing (1959), and the Indiana Street Wing (1961). These wings are indicated in Figure 8, Site Map. Section 5 (Significance Evaluations) provides a detailed physical description of each of these buildings and the associated significance evaluation for the Fairfield Inn & Suites property under all applicable national, state, and local designation criteria and integrity requirements.

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SOURCE: LARIAC Imagery 2014; Open Street Map 2019

DUDEK

0 40 80 Feet

FIGURE **8**

Site Map

Pacific Coast Commons Specific Plan EIR Project

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5 Significance Evaluation

In order to determine if the proposed Project will affect historical resources under CEQA, the Fairfield Inn & Suites property (525 Sepulveda Boulevard) within the Project site was evaluated for historical significance and integrity in consideration of NRHP, CRHR, and City of El Segundo designation criteria and integrity requirements. A detailed physical description of the property is provided below. The Fairfield Inn & Suites building presents as three connected buildings, but comprises one hotel building with multiple wings and additions. Because the building lacks visual cohesion, each of component will be described individually.

5.1 Fairfield Inn & Suites (525 Sepulveda Boulevard)

Property Description

The Fairfield Inn & Suites (525 Sepulveda Boulevard) presents as three wings, a main hotel volume which contains the hotel lobby and hotel rooms around an open-air courtyard and pool area, an 8-story wing along Indiana Street, added circa 1960-1962, and a Conference room wing extending the property to Mariposa Avenue, north of the main hotel volume (Figure 9). The buildings are connected by hallways, and suspended pedestrian walkways, and open-wall building connections.



Figure 9. East and North elevation of Fairfield Inn & Suites complex, View looking southwest (IMG_8844)

Main Hotel Volume (1959)

The main hotel volume presents as a four-story, square plan building with an open-air courtyard and pool in the center. The east elevation presents as only two stories, providing visual access from Sepulveda Boulevard and public right of way into the hotel room area and courtyard. The building features a flat roof with parapet and railing, but have variable heights due to different side heights and protruding elevator towers projecting above the roofline (Figure 10).



Figure 10. Main Hotel volume north (main) and east elevation, porte-cochere at right, view looking southwest (IMG_8858)

Cladding is concrete with regular scoring on the east and north (main) elevations, and painted brick on the south and west elevation (Figure 11). On the west elevation there is an additional, Mid-Century Modern-style, geometric sun shade over the hallway windows, adding restrained decoration to that elevation. The building also features cantilevered porches on the south elevation, separating the individual rooms with metal barriers and railings (Figure 12). Fenestration consists of occasional fixed metal windows on the east elevation; metal-framed, sliding sash glass doors on the south elevation; tripartite sliding windows singly and in pairs as well as metal service doors at the grounds level on the east elevation; and tall, fixed full-height windows and automatic sliding doors, at the lobby level on the main (north) elevation. The main (north) elevation has a covered porte-cochere, providing access from Sepulveda Boulevard. The porte-cochere features four round support posts and a segmental arch roof with skylight.



Figure 11. Main Hotel volume, west elevation, view looking southeast (IMG_8785)



Figure 12. Main Hotel volume, south elevation, view looking northeast (IMG_8800)

Conference room and Restaurant wing (1959)

The conference room and restaurant wing presents as multiple volumes with an irregular plan; with one story in front (east elevation) two stories in rear (west elevation). The building's roof presents as multiple roof forms with flat and flat-with parapet roofs as well as a distinctive Mid-Century Modern-style geometric "quilted" roof (variation on a folded plate roof) (Figure 13).



Figure 13. Conference room and restaurant wing, main (east) elevation (IMG_8850)

This wing's main (east) elevation presents as a concrete arcade and shaded walkway on the left, and a late-twentieth century modern building on the right. It features continuous fixed ribbon windows, stucco textured concrete cladding, and neo-traditional Mediterranean details such as a faux stucco, belt course, tilework, and tower volume. The doors on this elevation present as wood and glass doors and a pair of wood double doors surrounded by decorative tilework, keeping with the Mediterranean theme. This wing's north elevation presents as a scored concrete wall on the left (east) side, broken by belt course detailing, and a single wood door surrounded by tile detailing; and a mid-century modern textured (pimpled) brick cladding on the right (west) side. The textured/pimped brick continues onto the west elevation. Fenestration on this elevation is limited to a single door in a recessed vestibule and metal louvered vents (Figure 14). Texture continued partially onto the south elevation, however much of the southern elevation of the building connects to the main hotel volume and was not visible or presented as smooth walled concrete. An entrance along this elevation has a red clay tile stair and metal railing and a glass and steel double door with transom and sidelights. There is a modern mural on the south elevation of this wing, facing towards the hotel entrance and porte-cochere.



Figure 14. Conference room and restaurant wing, north and west elevations (IMG_8839)

Indiana Street wing (1961)

The Indiana Street wing is an 8-story, narrow, rectangular-plan building. The building features a flat roof with parapet and railing. The building is banked slightly into the hillside, with the uphill portion towards Mariposa Avenue, and a concrete masonry unit (CMU), clad parking level and foundation as the hillside slopes downward and south (Figure 15). The parking area is open area and has regular concrete piers. This building is connected to the main hotel volume by a suspended walkway over a narrow alley and to the restaurant and conference room wing by an open wall connection and stairwell (Figure 16). This building has less overall cladding, and window and plan variability than its connected hotel buildings. Cladding consists of scored concrete on the north and south elevations, and vertically-oriented wood cladding on the east and west elevations. Fenestration is limited to the east and west elevations and consists of single fixed steel-frame windows, over metal louvered vent (air conditioning vent) single and in pairs on the west elevation, and long, full height, fixed window singly or in pairs with metal sun shades or louvered sun shades at top-most portion on the east elevation. Also on the east elevation, there was a large, full height window and large metal louvered vent at south end of east elevation, likely the stairwell and elevator tower.



Figure 15. Indiana Avenue Wing: south and west elevation, looking northeast (IMG_8764)



Figure 16. Indiana Avenue Wing: east elevation (right) and alley, showing hallway connection to main hotel volume, looking south (IMG_8814)

Identified Alterations

Dudek staff visited the City of El Segundo Department on February 25, 2020 and reviewed all available permits pertaining to the subject property (AIN 4139-025-091) The City of El Segundo Department had no permits for the subject property prior to 1980. Observed alterations are also included in this section, and dates stated if known:

- 1961. Indiana Wing addition (no permit #)
- 1965. Name changed to Hacienda Hotel (no permit #)
- 1968. Thunderbird restaurant and coffee shop converted to the Hukilau, a Polynesian-themed tiki bar (no permit #)
- 1979. 9-story South Tower (now Aloft Hotel) addition completed (ESH 1979)
- 1983. Reroof main hotel volume: change in materials from gravel roof to urethane foam and coating roof system (#A039)
- 1984. Demolish portion of existing sign due to "hazardous condition" (#A285)
- 1987. Remodel of exterior façade (main hotel and restaurant and conference room wing) and accessory structures. Removal and replacement of original canopy and trellis in restaurant and conference room wing. Architect: Albert C Martin & Associates; Contractor KIP Construction (#1337-86)
- 1988. Add 4'x10' sign to wall of existing structure. Contractor: Heath & Co. (#0186-88)
- 1995. Reroof flat roof portions of restaurant and conference room wing. (#1067-95)
- 1998. Replacement exit door. (#0855-98)
- 1999. New pool deck restroom and maintenance room building (#1206-99)
- Date Unknown: Observed cladding replacement in Indiana Street wing
- Date Unknown: Observed window replacement in Indiana Street wing
- Date Unknown: Observed window and door replacements on north elevation of main hotel

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NRHP/CRHR Statement of Significance

The Fairfield Inn & Suites property (525 Sepulveda Boulevard; APN: 4139-025-091) does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, based on the following significance evaluation.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research indicated that at the time of construction, the Thunderbird Hotel (now Fairfield Inn & Suites) was one of the largest hotel projects in Southern California; however, this achievement was subsequently overshadowed by a suburban hotel building boom throughout the state that persisted alongside a housing and population boom in the 1950s and 1960s. The size of the Thunderbird Hotel and its status as a popular, local banquet hall and meeting center do not appear to have made a significant contribution to the history of the City of El Segundo or State of California's development. Moreover, with subsequent additions and alterations, the building no longer adequately represents the time period in which these events took place. Therefore, the property does not appear eligible under Criterion A of the NRHP or Criterion 1 of the CRHR.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that any previous property owners, employees, or long-term guests are known to be historically significant figures at the national, state, or local level. As such, this property is not known to have any historical associations with people important to the nation's or state's past. Therefore, the property does not appear eligible for the NRHP under Criterion B or CRHR under Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The Fairfield Inn & Suites property was constructed in 1959 and received two major additions in 1961 and 1979. The original 1959 hotel volume, 1959 conference room and restaurant wing, and 1961 addition at the time of these construction were excellent examples of the highly artistic Mid-Century Modern-style buildings designed by local Southern California-practicing architects Raymond Stockdale and Maxwell Starkham & Associates. The now-lost character-defining features would have been the curtain wall construction, colored spandrel paneling, cantilevered porches, rectangular and boxy proportions, and decorative concrete and metal screens on the main elevation. Though neither architect could be considered a master architect, the buildings were good examples of their work. However, due to major exterior alterations in 1987, none of the original decorative elements and character-defining features of the Mid-Century Modern buildings remain. The property as a whole has been altered beyond recognition, diminishing the once high artistic value of the property. Finally, due to extensive exterior alterations, the property may no longer be considered representative of a significant and distinguishable entity whose components lack individual distinction. For these reasons, the Fairfield Inn & Suites property at 525 N Sepulveda Boulevard does not appear eligible for listing in the NRHP under Criterion C or CRHR under Criterion 3.

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Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The property is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

City of El Segundo Statement of Significance

The City of El Segundo's cultural resource designation criteria is based on a combination of age and NRHP/CRHR designation criteria and integrity requirements. Therefore, for all of the reasons identified in the discussion of NRHP and CRHR eligibility, the subject property does not appear eligible under any local designation criteria, either individually or as part of a district.

Integrity Discussion

The Fairfield Inn & Suites property maintains integrity of location, as it remains in its original location. The Fairfield Inn & Suites property, including all three wings have had major exterior renovations since 1987. While the buildings maintain much of their original plan and structure, key-character defining features of the Mid-Century Modern style building were removed and replaced with ordinary modern materials. Therefore, the Fairfield Inn & Suites property does not maintain integrity of design. The property does not retain integrity of setting, as the setting in all directions has been altered into parking lots, high-rise office or hotels, or strip malls with anchoring grocery and retail stores, in the late 1980s and 1990s. The size, scale, and density of this modern setting would be unrecognizable to a person from the late 1950s or early 1960s. Similar to integrity of design, the Fairfield Inn & Suites property does not maintain integrity of materials and workmanship, due to the loss of the highly artistic concrete and metal screens and introduction of modern materials on the main and side elevations. Key original elements such as the cladding, signage, porte-cochere, decorative elements, windows, and doors have all been removed and replaced. The Fairfield Inn & Suites property does not retain integrity of feeling, as the property no longer retains the ability to express itself as an hotel building constructed in the 1950s, built in the early years of LAX's "jet-age" modernistic expansion. Finally, the property no longer retains integrity of association either with original owners Allen E. and Marc Siegal, or with the original companies: Thunderbird Hotel Corporation or Hacienda Hotels. In summary, Fairfield Inn & Suites property does not retain the requisite integrity for designation, and does not rise to the level of significance required for designation at the national, state or local levels.

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6 Findings and Conclusions

6.1 Summary of Findings

No cultural resources were identified within the Project site as a result of the CHRIS records search, NAHC SLF search, extensive archival research, field survey, and property significance evaluation. The Fairfield Inn & Suites property located at 525 Sepulveda Boulevard (APN: 4139-025-091) does not appear eligible for NRHP, CRHR, or City designation due to a lack of significant historical associations, architectural merit, and physical integrity. Therefore, this property is not considered an historical resource for the purposes of CEQA. Further, no potential indirect impacts to cultural resources were identified.

While no surface evidence of cultural resources was identified as a result of this study, it is possible that subsurface resources could be encountered/impacted by ground disturbing activities associated with the Project. Recommendations to reduce impacts to undiscovered, subsurface cultural resources are provided below.

6.2 Recommendations

In consideration of the cultural resources investigation, impacts to cultural resources would be less-than-significant. No previously identified or new cultural resources were identified within the Project site as a result of the current study; therefore, no further management recommendations are necessary beyond standard protection measures to address unanticipated discoveries of cultural resources and human remains (listed below).

Unanticipated Discovery of Cultural Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the proposed Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards, can evaluate the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA or Section 106 of the NHPA, additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be notified within 24 hours of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the remains are determined to be Native American, the Coroner shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code, Section 5097.98, the NAHC must immediately notify those persons it believes to be the MLD from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The MLD would then determine, in consultation with the property owner, the disposition of the human remains.

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Appendix A

Preparer's Qualifications

Kate Kaiser, MSHP

Architectural Historian

Kate Kaiser is an architectural historian with 8 years' professional experience as a cultural resource manager specializing in California Environmental Quality Act (CEQA) compliance, National Historic Preservation Act Section 106 compliance, reconnaissance and intensive level surveys, archival research, cultural landscapes, and GIS. Ms. Kaiser meets the Secretary of the Interior's Professional Qualification Standards for both architectural history and archaeology. In addition, Ms. Kaiser has worked as an archaeological technician for the National Park Service and USDA Forest Service. She has worked with federal, private, and local organizations to manage and provide professional expertise for multidisciplinary transportation projects, emergency repairs, wildland fire-related resource damage, park-wide inventories, and federal land management projects.

Education

University of Oregon
MS, Historic Preservation, 2017
Boston University
BA, Archaeology, 2009

Professional Affiliations

Association for Preservation Technology – Southwest
California Preservation Foundation
Vernacular Architecture Forum
Society for California Archaeology

Relevant Dudek Project Experience

Municipal

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project, City of Santa Monica, Los Angeles County, California. Served as architectural historian and author of the historical resource technical report. Preparation of the report involved site recordation, archival research, historic context development, building and structure development descriptions for buildings and structures at the Arcadia Water Treatment Plant and a well along Olympic Boulevard, historical significance evaluations, and State of California Department of Parks and Recreation Series 523 forms (DPR forms). The project proposed to demolish underutilized buildings and structures as part of an overarching multi-component project to add new wells to the Olympic Well Field, construct a new 16-inch pipeline connecting the Olympic Well Field to a new Advanced Water Treatment Facility, and expand the Arcadia Water Treatment Plant to handle additional flows.

LADWP City Trunkline South Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the Cultural Resources Technical Report for the City Trunkline South Project. Preparation of the report involved site recordation, extensive archival research, historic context development, building development descriptions, historical significance evaluations, and DPR forms for each building of the project. The project proposed to replace sections of the pipeline in located in the Coldwater Canyon Road area. The report also analyzed the vibration effects of pipeline replacement and pipe-jacking practices expected as part of the Trunkline project.

LADWP Valley Generating Station Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the Cultural Resources Technical Report for the Valley Generating Station Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for each building of the project. The project proposed to remove the 1953 steam generating plant, as well as the four stacks, rail spur, and underground fuel tanks.

LACSD Gardena Pumping Station Project, Sanitation Districts of Los Angeles County, Gardena, California. Served as architectural historian and author of the Cultural Resources Technical Report for the Gardena Pumping Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for each building of the project. The project proposed to remove the 1929 and 1960 pumping plant above and below-ground structures, as well as two adjacent parcels containing commercial buildings (1954, 1957) and replace them with a larger capacity pumping plant facility.

Phillips 66 and Kinder Morgan Relocation Project, Berths 150-151, Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS), Port of Los Angeles, California. Served as architectural historian and co-author of the Updated Historical Resources Evaluation Report for the Phillips 66 and Kinder Morgan Relocation Project. Preparation of the report involved reviewing previous evaluations for Union Oil Terminal Berths 150-151 and writing an updated significance evaluation. The project proposed to remove and replace the original wharfs with new concrete loading platform, mooring and breasting dolphins, access ramps, catwalks, and an underwater bulkhead. It also proposed the construction of new topside and piping components connecting the new platform to existing pipes in the backlands.

Globemaster Corridor Specific Plan, City of Long Beach, Los Angeles County, California. Served as architectural historian and author of the Draft EIR-EIS Cultural Resources Chapter for the Globemaster Corridor Specific Plan (GCSP) project. The project proposed to implement the GCSP, a planning and regulatory framework for redevelopment of an area adjacent to the Long Beach Airport including rezoning portions of the GCSP area and a mobility plan that implements new streets and pedestrian connectors. Since the GCSP does not directly propose changes to the buildings or structures in the Plan area, the cultural resources report takes a programmatic overview and offers analysis of potential impacts and mitigation measures for future development.

LADWP De Soto Tanks Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the Historic Properties Identification Report for the De Soto Tanks EIR. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for each building of the project. The project proposed to remove the 1941 reservoir and associated buildings, and replace them with two modern underground storage tanks, as well as connections to the LADWP Rinaldi Trunk Line and De Soto Trunk Line. The project also analyzed the potential project impacts to the Chatsworth Momonga/Mission Trail, a City of Los Angeles Historic-Cultural Monument (HCM) designated in 2018, that was adjacent to the proposed Project area.

LADWP Tujunga Spreading Grounds Enhancement, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the cultural resources report CEQA-Plus Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and State of California Department of Parks and Recreation Series 523 forms (DPR forms) for each building of the project. The project proposed to modify a U.S. Army Corps of Engineer-owned flood control channel to divert more flood water from the Tujunga Flood Control Channel into the Tujunga Spreading Grounds.

LADWP West Los Angeles District Yard Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the cultural resources report. Preparation of the report involved extensive archival research, in-field research, historic context development, building development descriptions, historical significance evaluations, and DPR forms for each building of the project. The project proposed to demolish existing buildings and build new buildings and an underground parking structure.

Development

Modelo Project Environmental Impact Report, City of Commerce, Los Angeles County, California. Served as architectural historian and co-author for the Cultural Resources Technical Report for the Modelo Project and EIR report section. The report included conducting a CHRIS record search, fieldwork, archival research, historical context development, developing building descriptions, and significance evaluations for the Veterans Memorial Park structures and landscape located within the proposed Project area. The evaluation found the property ineligible under all National Register of Historic Places and California Register of Historic Resources criteria. The project proposed to demolish all existing buildings and an adjacent vacant parcel, and then redevelop the Project site to accommodate a mixed-use development including residential units, commercial units, a community center, a museum and 4.75 acres of park and open space.

Arroyo Seco Canyon Project, City of Pasadena, Los Angeles County, California. Served as architectural historian and co-authorfor the Cultural Resources Technical Report for the Arroyo Seco Canyon Project. The report included conducting a CHRIS record search, fieldwork, archival research, historical context development, developing building descriptions, and significance evaluations for six historic-aged engineering buildings and structures within the proposed project area. Dudek recommended that all buildings and structures were ineligible for listing in the NRHP or CRHR with the exception of the Behner Water Treatment Plant, and provided impacts analysis for City of Pasadena Arroyo Seco Stone Wall design elements present in the proposed Project Area.

Silent Ranch Hillside Subdivision Project, City of Glendora, Los Angeles County, California. Served as architectural historian and author of the Historic Resources Technical Report for the Silent Ranch Hillside Subdivision Project. The report included conducting a CHRIS record search, reviewing permits, archival research, historical context development, developing building and structure descriptions, and historical significance evaluations for Charles Silent's Rancho Los Alisos property, Girl Scout Camp Aventura, Forest Service flood control crib dams and channels, and a segment of the MWD Upper Feeder Pipeline. Dudek recommended that all buildings and structures were ineligible for listing in the NRHP or CRHR with the exception of the MWD Upper Feeder Pipeline, which was recommended eligible under Criterion A/1/1. The project proposed indirect impacts to the setting of the pipeline and provided for protection against damage or overloading as the pipeline is an MWD public utility.

14545 Lanark Street Project, Panorama City, City of Los Angeles, California. Kaiser served as architectural historian and co-author of the cultural resources technical report for the 14545 Lanark Street Project. The report included conducting a CHRIS record search, reviewing permits held by the City of Angeles, archival research, historical context development, developing building and structure descriptions, and historical significance evaluations for the former Los Angeles County Social Services office in Panorama City. The project proposed to demolish the Social Services office and redevelop the property into 120 studios, one-, two-, and three-bedroom apartments serving low-income individuals and families.

City of Irwindale Speculative Concrete Tilt-Up Building Project. Irwindale, Los Angeles County, California. Kaiser served as architectural historian and author of the cultural resources technical report for the City of Irwindale Speculative Concrete Tilt-Up Building Project. The report included conducting a CHRIS record search, reviewing permits held by the City of Irwindale, archival research, historical context development, developing building and structure descriptions, and historical significance evaluations for two buildings and thirteen structures at a hollow-core concrete panel manufacturer in southeast Irwindale. The project proposed to demolish all buildings and structures in the project site and construct a 528 710 s.f., tilt-up concrete warehouse on the parcel. All four buildings were determined ineligible for listing in the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), or as a City of Irwindale Historic Resource.

Historical Resource Assessment for 1230 North Ogden Drive, City of West Hollywood, Los Angeles County, California. Served as architectural historian and author of the historic resource assessment for four residential buildings on the 1230 North Ogden Drive parcel in West Hollywood. Report included conducting a record search, coordinating with the City of West Hollywood for building permits, developing the building description, archival research, historical context development, historical significance evaluations, and California DPR form production for the four buildings. The historical resource assessment report fulfills City requirements during the development permit application process. All four buildings were determined ineligible for listing in the NRHP or CRHR.

Education

Campus-wide Historic Context Statement for California State University Long Beach, City of Long Beach, Los Angeles County, California. Served as architectural historian and co-author of the historic context statement report analyzing the effect of master architect Edward Killingsworth on the development of the campus. Preparation of the historic context statement involved extensive archival research, historic context development, in-person interviews of architects who worked on-campus, review of CSU Long Beach building and landscape records, and coordination with local heritage group, Long Beach Heritage.

Healthcare

Kaiser Permanente Los Angeles Specialty Medical Center Project, Los Angeles, Los Angeles County, California. Served as architectural historian and author of the Historical Resource Assessment for the Kaiser Permanente Los Angeles Specialty Medical Center at 755-765 W. College Street in Los Angeles. Preparation of the report involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations for buildings greater than 45 years in age, and DPR forms for the medical center buildings and structures that are proposed for demolition as part of the multiphase project. As a result of the evaluations, all buildings were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements.

Kaiser Permanente Los Angeles Medical Center Project, Los Angeles, Los Angeles County, California. Served as architectural historian and co-author of the Draft EIR Cultural Resources Chapter and the author of the Cultural Resources Report Appendix. Preparation of the report involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations, and DPR forms for six buildings greater than 45 years in age that are proposed for demolition as part of the multiphase project. As a result of the evaluations, all buildings proposed for demolition were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements. DEIR chapter also analyzed potential indirect impacts on two other National Register listed or eligible sites: the Aline Barnsdall Complex and the Hollywood Presbyterian Medical Center.

State

Judicial Council of California Historical Resource Evaluation Report for the Stanley Mosk Courthouse, City of Los Angeles, Los Angeles County, California. Served as architectural historian and author of the historical resource evaluation report. Preparation of the report involved extensive archival research, interior and exterior survey fieldwork, historic context development, material descriptions, historical significance evaluations, and DPR forms for the Stanley Mosk Courthouse. Dudek was retained by the Judicial Council of California (JCC) to prepare an evaluation of the Stanley Mosk Los Angeles County Courthouse building, located at 111 N. Hill Street in the City of Los Angeles, California. To comply with Public Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL), The Stanley Mosk Courthouse was found eligible for designation for the NRHP, CHL, CRHR, and Los Angeles Historic Cultural Monument list under Criterion A/1 and C/3.

William Burns, RPA

Project Archaeologist

William Burns is an archaeologist with over 15 years' experience in cultural resource management. He is highly knowledgeable about the California Environmental Quality Act, the National Environmental Policy Act, the Native American Graves Protection and Repatriation Act, and the National Historic Preservation Act, particularly the Section 106 process. Mr. Burns evaluates buildings and districts for archaeological sensitivity and possible inclusion on the National Register of Historic Places. He assesses project and building plans for archaeological sensitivity and reviews archaeological reports on the state government regulatory end of the process.

Mr. Burns possesses expertise about Pre-contact archaeological sites, paleocoastline reconstruction, and artifact identification and analysis. He applies this expertise to archaeological report writing and editing for Section 106 projects. He also serves on field crews and as a supervisor on archaeological projects, overseeing surveys, site examinations, data recoveries, and artifact database creation and maintenance. For precise site mapping, Mr. Burns uses GPS devices, primarily Trimble GEO XH, ArcGIS, and Maptitude.

EDUCATION

MS, Coastal and Marine Archaeology, 2010, University of York, Department of Archaeology, York, United Kingdom

BA, Anthropology, Minor in Mathematics, 2004, University of Massachusetts at Amherst, Massachusetts

CERTIFICATIONS

Register of Professional Archaeologists (RPA)

Divemaster (National Association of Underwater Instructors)

OSHA HAZWOPER (40-hour)

Basic First Aid/BBP (American Heart Association)

Adult CPR/AED (American Heart Association)

Project Experience

Woodland Community College Performing Arts and Culinary Services Facility, Woodland, CA. Conducted records search, performed pedestrian survey, and prepared cultural resources report for school project.

Jefferson Elementary School Project, Sonoma County, CA. Conducted records search, performed pedestrian survey, and prepared cultural resources report for school project.

Washington Middle School Project, Sonoma County, CA. Conducted records search, performed pedestrian survey, and prepared cultural resources report for school project.

Cloverdale Unified School District Project, Sonoma County, CA. Conducted records search, performed pedestrian survey, and prepared cultural resources report for school project.

Alamo Mixed-Use Project, Vacaville, CA. Conducted tribal consultation, performed extended Phase I testing, and prepared cultural resources report for residential development project.

Heartland Solar Project, Mendota, CA. Conducted records search, performed cultural survey, and prepared cultural resources report for solar project.

Cascade Battery Energy Storage Project, Stockton, CA. Conducted records search, performed cultural survey, and prepared cultural resources report for school project.

Foothill High School Portable Replacement and New Science Classrooms Project, Pleasanton, CA. Conducted records search, performed cultural survey, and prepared cultural resources report for school project.

Amador Valley High School Portable Replacement and New Science Classrooms Project, Pleasanton, CA. Conducted records search, performed cultural survey, and prepared cultural resources report for school project.

Alameda County Water District Advance Metering Infrastructure Project, Alameda County, CA. Conducted records search, and prepared cultural resources inventory, monitoring plan, sensitivity study report for utilities project.

Spectrum Charter Communications Alturas Project, Modoc County, CA. Conducted records search, performed survey, and prepared cultural resources report for utilities project.

Bowman Charter School Field Project, Auburn, CA. Conducted records search and prepared cultural resources report for school project.

San Geronimo Treatment Plant Emergency Generator Project, Woodacre, CA. Performed cultural survey, conducted records search and prepared cultural resources report for treatment plant improvements project.

Palm Villas Senior Center, Saratoga, CA. Performed cultural and paleontological survey, conducted records search and prepared cultural resources report for senior care facility.

CSU Maritime Academy Faculty Road Repairs, Vallejo, CA. Conducted records search, preformed pedestrian survey, and prepared cultural resources report for university upgrades project.

CSU Maritime Academy Dining Center Patio Project, Vallejo, CA. Conducted records search, preformed pedestrian survey, and prepared cultural resources report for university upgrades project.

San Carlos Fuel Management Project, San Carlos, CA. Performed cultural survey, conducted records search and prepared cultural resources report for vegetation management project.

CSU Maritime Academy Basin Dredging, Vallejo, CA. Performed biological survey for basin dredging project.

Mission Bay Restoration Project, San Diego, CA. Performed biological survey for eelgrass restoration project.

Eaton Road Improvements, Chico, CA. Contributed to cultural resources report for Caltrans highway Improvement Project.

Centennial Flats Solar Project, La Paz County, AZ. Organized crew to perform pedestrian survey, and prepared cultural resources report for large solar farm project.

Reedley Field DMV Office, Reedley, CA. Performed cultural survey, conducted records search and prepared

cultural resources report for state office project.

Byron Airport Improvements Project, Byron, CA. Performed cultural survey for airport improvements project.

Spectrum Charter, Highways 1 and 68, Monterey, CA. Conducted records search and prepared cultural resources report for fiber optic installation project.

Roblar Road Quarry, Sonoma County, CA. Performed cultural and paleontological survey, performed extended Phase I testing, performed tribal outreach, and prepared cultural resources report for quarry project.

El Dorado Hills Wastewater Treatment Plant, El Dorado County, CA. Conducted records search and prepared cultural resources report for water treatment plant.

Fairgrounds Drive Subdivision, Sacramento, CA. Conducted records search and prepared cultural resources report for residential subdivision project.

Fresno State Student Union, Fresno, CA. Conducted records search, preformed pedestrian survey, and prepared cultural resources report for university project.

Hunter Subdivision Project, St Helena, CA. Conducted records search, preformed pedestrian survey and extended Phase 1 testing, and prepared cultural resources report for residential subdivision project.

Daylight Solar Project, Kings County, CA. Conducted records search, preformed pedestrian survey, and prepared cultural resources report for solar farm project.

Tres Amigos Solar Project, Los Banos, CA. Conducted records search, preformed pedestrian survey, and prepared cultural resources report for solar farm project.

North 16th Street Streetscape, Sacramento, CA. Prepared cultural resources report for street revitalization project.

Wheeler North Reef Restoration Project, San Clemente, CA. Performed cultural survey, conducted records search and prepared tribal cultural resources report for underwater reef restoration project.

Delano Field DMV Office, Delano, CA. Performed cultural survey, conducted records search and prepared cultural resources report for state office project.

Auburn Interfaith Food Closet Project, Placer County, CA. Conducted records search and prepared cultural and paleontological resources report for commercial development project.

University of California, Davis Emerson Hall Replacement Project, Davis, CA. Conducted records search for university development project.

Proxima Solar Energy Center Project, Stanislaus County, CA. Performed cultural and paleontological survey, conducted records search and prepared cultural and paleontological resources report for solar farm project.

South Lake Solar and Energy Project, Fresno County, CA. Performed cultural and paleontological survey, conducted records search and prepared cultural and paleontological resources report for solar farm project.

Gonzaga Ridge Wind Farm, Merced County, CA. Conducted records search, performed survey, and prepared cultural resources report for wind farm project.

Marin Country Club Steam Restoration Project, Novato, CA. Conducted records search and prepared cultural resources report for stream restoration project.

North Natomas Aquatic Center Project, Sacramento, CA. Conducted records search and prepared cultural resources report for community center project.

Lakeville Highway Dock Project, Petaluma, CA. Conducted records search and assisted in cultural resources report preparation for dock construction project.

Press Democrat Project, Rohnert Park, CA. Conducted records search for cultural resources report for commercial development.

Orchard Creek Apartments, Rocklin, CA. Conducted field survey, prepared cultural resources report for housing development.

Los Angeles Department of Water and Power, Bishop, CA. Conducted cultural monitoring of power line clearing.

California High-Speed Rail Project, Construction Package 2-3, Fresno to Bakersfield, Dragados / Flatiron Joint Venture, Fresno, Kings, Counties of Tulare and Kern, California. Conducted field survey, organize and manage cultural, tribal, and paleontological monitors, prepared cultural resources survey reports and monthly summaries.

Edwards Air Force Base Solar Project, Terra-Gen, Kern County, California. Conducted records search for large solar project.

Little Bear Solar Project, First Solar, Inc., Mendota, California. Conducted field survey, prepared cultural resources report for solar energy development.

Siskiyou Hall Project, California State University, Chico, Butte County, California. Prepared cultural resources report for campus construction project.

McCown Minor Land Division Project, Davenport Construction, Placer County, California. Prepared cultural resources report for land division project.

Castilleja School Project, City of Palo Alto, California. Prepared cultural resources report for school improvements.

Roberts' Ranch Project, City of Vacaville, California. Conducted field survey for residential development.

Bellevue 7 Ranch Project, Ryder Homes of California, Inc., City of Santa Rosa, California. Conducted field survey, prepared cultural resources report for residential development.

Rohnert Park Water Tank Project, City of Rohnert Park, California. Conducted extended phase I field survey, prepared cultural resources report for water tank construction.

Peach Tree Solar Project, Sunworks, Inc., Yuba County, California. Conducted field survey, performed records search, prepared cultural resources report for solar installation at country club.

River Bluff Lower Terrace Project, O'Dell Engineering., City of Ceres, California. Conducted field survey, prepared cultural resources report for city park improvements.

El Dorado Irrigation District Flume Replacements, El Dorado Irrigation District, El Dorado County, California. Conducted field survey, prepared site forms, prepared cultural resources report for flume replacements and canal improvements.

Las Gallinas Valley Sanitary District Secondary Treatment Upgrade Project, Las Gallinas Valley Sanitary District, Marin County, California. Conducted field survey, prepared cultural resources report for water treatment plant improvements.

Auburn Riparian Vegetation Management Project, Auburn Area Recreation and Parks District, City of Auburn, California. Conducted field survey, prepared site forms, prepared cultural resources report for vegetation management recreation areas.

Arden Gateway Project, Fulcrum Property, Placer County, California. Prepared cultural resources report for commercial and residential development.

California Boulevard Roundabouts Project, Caltrans, City of Napa, California. Conducted extended phase I field survey, monitored geotechnical borings.

University Village Housing Project, City of Merced, Merced, California. Conducted field survey, prepared cultural resources report for housing development.

Yokohl Ranch Housing Development Project, The Yokohl Ranch Company LLC, Tulare County, California. Conducted field survey, performed site evaluation for large housing development.

Aera Energy Cultural Resources Inventory, Aera Energy LLC, Kern County, California. Conducted field survey, performed site evaluation, prepared cultural resources report for inventory existing cultural resources present for planning purposes.

Aera Energy Waterline Installation Project, Aera Energy LLC, Kern County, California. Conducted field survey, performed site evaluation, prepared cultural resources report for proposed waterline installation.

Granite Construction Clovis Site Development, Granite Development LLC, Clovis, California. Conducted field survey, prepared cultural resources report for business development.

Little Lake Line B Town Drain System Construction Project, Riverside County Flood Control and Water Conservation District, Riverside County, California. Served as cultural and paleontological monitor.

Parking Structure Project, Academy of Our Lady of Peace, San Diego, California. Provided artifact

analysis and report preparation.

Yorba Avenue Warehouse Project, Pacific Industrial Inc., Long Beach, California. Prepared a cultural resources letter report based on a records search and field survey for construction of a warehouse and office facility with parking lots and retention basins.

Proctor Valley Village 14 and Preserve Project, County of San Diego, California. Conducted field survey and site evaluation, prepared cultural resources report, and provided artifact analysis for a component of the Otay Ranch master-planned community.

Vista Canyon Ranch Sewer Line Project, Vista Canyon Ranch LLC, City of Santa Clarita, California. Provided field survey, site evaluation, and artifact analysis for a mixed-use residential and commercial development.

Rancho Cucamonga Northeastern Sphere Annexation Area, Sargeant Town Planning, Rancho Cucamonga, California. Conducted field survey and site evaluation of a potential annexation area.

Southern California Edison Bishop Service Center, Elements Architecture, Inc, City of Bishop, California. Conducted field survey and site evaluation, analyzed artifacts, and prepared report for construction of an electrical line service center facility.

Palm Avenue Distribution Center, IDS Real Estate Group, San Bernardino, California. Conducted field survey and site evaluation, and assisted with preparation of a cultural and paleontological resources monitoring report for warehouse/distribution center construction.

Newhall Homestead South Project, Newhall Land and Farming Company, Los Angeles County, California. Participated in intensive-level field survey of a 2,535 project site for a residential and commercial development.

Five Lagunas, Merlone Geier Management LLC, Laguna Hills, California. Completed a records survey for redevelopment of a mall property.

8777 Washington Boulevard Project, Guild GC (VCN LP), Culver City, California. Conducted a field survey and building evaluation for a commercial building remodel of a two-story, mixed-use building.

San Onofre to Pulgas Double Track, PGH Wong Engineering, San Diego County, California. Analyzed artifacts and prepared report for a railroad construction project.

Relevant Previous Experience

Archaeologist, Duke Cultural Resource Management, Rancho Santa Margarita, California. Participated in archaeological monitoring in Riverside County.

Co-owner and Principal Invesitgator, Archaeological Response Consultants. Prepared and wrote reports for archaeological projects.

Field Director/Crew Chief, Tetratech Inc., Pittsburgh, Pennsylvania. Supervised archaeological field crews (up to 25 people); managed archaeological projects for pipeline/energy projects;

coordinated/contacted monitors, landowners, and land agents; and wrote site summaries. Supervised archaeological field crew of 20 on a multi-state gas pipeline survey (Pennsylvania Pipeline Project, Sunoco).

Field Supervisor, Public Archaeology Laboratory, Pawtucket, Rhode Island. Supervised archaeological field crews of up to 20 people. Assessed archaeological sensitivity and prepared archaeological technical reports.

Archaeologist, Public Archaeology Laboratory, Pawtucket, Rhode Island. Performed archaeological field work.

Rhode Island Marine Archaeology Project, Newport Rhode Island. Created an artifact analysis/tracking database.

Archaeological Field Supervisor, University of Massachusetts, Archaeological Services, Amherst, Massachusetts. Performed archaeological field work, mapped and laid in units, and supervised six-member crew. Projects included:

- Turner Falls Airport, Massachusetts—Field worker and lithic analyst for Paleo-Indian camp.
- Cohasset Roundhouse, Massachusetts—Monitored machine excavated nineteenth century railroad roundhouse.
- Tappan Zee Bridge Replacement, Hudson River, New York—Surveyed and mapped nineteenth century coal barge.

Technical Services Division Assistant, Massachusetts Historical Commission, Boston, Massachusetts. Reviewed projects for historic assessment and archaeological sensitivity. Processed archaeological reports and managed report collection. Processed archaeological site forms for State Inventory. Communicated with public and various agencies about Commission policies. General clerical work.

Lab Assistant, Rhode Island Marine Archaeology Project, Newport, Rhode Island. Analyzed and conserved artifacts.

Artifact Curations Assistant/Analyst, Massachusetts Historical Commission, Boston, Massachusetts. Identified and analyzed pre-contact and historic artifacts for the Southwest Corridor and Central Artery Massachusetts Department of Transportation projects in and around Boston. Installed museum exhibits at the Massachusetts Historical Commission Museum.

Vice President and Board Member, The James Cook Foundation, Newport, Rhode Island. Oversee annual meeting. Attend fundraising workshops given by Rhode Island Foundation Seminar. The foundation is dedicated to the preservation of James Cook's shipwrecks in Rhode Island.

Pre-contact Analyst, Historic Artifact Analyst, University of Massachusetts Archaeological Services, Amherst, Massachusetts. Analyzed primarily lithics, aboriginal ceramics, historic bottles and ceramics.

Volunteer, Hadley Historical Society, Hadley, Massachusetts. Identified and recorded Pre-contact artifacts.

Student, University of Massachusetts Archaeological Services, Amherst, Massachusetts. Cleaned historic and Pre-contact artifacts, data entry, photo labeling.

Student, University of Massachusetts Field School & Lab, Amherst, Massachusetts. Participated in Phase II excavation of W.E.B. DuBois boyhood homesite. Cleaned and identified historic artifacts, data entry, photo labeling, site map creation w/ AutoCad, ceramics research.

Volunteer, Rhode Island Marine Archaeology Project, Newport, Rhode Island. Summer/Fall 2003 – Present. As field worker, assisted with mapping and excavation of eighteenth century Revolutionary War British shipwrecks. Contributed to artifact identification and conservation in the lab.

Instructor, Rhode Island Marine Archaeology Project. As instructor, taught techniques for mapping underwater archaeological sites.

Publications and Conference Presentations

Burns, William. 2019. *Cultural Resources Inventory Report: Heartland Solar Project, Kings County, California.* Dudek and Associates #11021, Fresno County, California.

Burns, William and Adam Giacinto. 2019. *Cascade Battery Energy Storage Project, Stockton, California.* Dudek and Associates #12030, Stockton, California.

Giacinto, Adam, Burns, William, Hanten, Nicholas, Steffen, Fallin, and Kathryn Haley. 2019. *Cultural Resources Inventory Report and Monitoring Plan for the Alameda County Water District Advanced Metering Infrastructure Project.* Dudek and Associates #11046, Alameda County, California.

Burns, William. 2019. *Cultural Resources Letter Report for the Amador Valley High School Portable Replacement and New Science Classrooms Project, Pleasanton, California.* Dudek and Associates #11879, Woodacre, California.

Burns, William. 2019. *Cultural Resources Letter Report for the Foothill High School Portable Replacement and New Science Classrooms Project, Pleasanton, California.* Dudek and Associates #11879, Woodacre, California.

Giaconto, Adam, Hale, Micah, and William Burns. 2019. *Cultural Resources Inventory Report for the Spectrum Charter Communications Alturas Project, Modoc County, California.* Dudek and Associates #11800, Modoc County, California.

Burns, William. 2019. *Cultural Resources Inventory Report for the Bowman School Field Project, Auburn, California – Negative Findings.* Dudek and Associates #11799, Auburn, California.

Burns, William and Adam Giacinto. 2019. *Cultural Resources Inventory Report for the San Geronimo Treatment Plant Emergency Generator Project, Woodacre, California – Negative Findings.* Dudek and Associates #11811, Woodacre, California.

Burns, William and Adam Giacinto. 2019. *Cultural Resources Inventory Report for the Dining Center Patio Project at the California Maritime Academy Campus, Vallejo, California – Negative Findings.* Dudek and Associates #11779, Vallejo, California.

Burns, William and Adam Giacinto. 2019. *Cultural Resources Inventory Report for the Faculty Drive Rehabilitation Project at the California Maritime Academy Campus, Vallejo, California – Negative Findings*. Dudek and Associates #11763, Vallejo, California.

Burns, William, Ryan Brady and Michael Williams. 2019. *Cultural and Paleontological Resources Assessment for the Palm Villas Saratoga Project, City of Saratoga, California – Negative Findings*. Dudek and Associates #10738, Saratoga, California.

Burns, William and Adam Giacinto. 2019. *Cultural Resources Inventory Report for the San Carlos Fuel Management Project, City of San Carlos, California – Negative Findings*. Dudek and Associates #11719, San Carlos, California.

Pham, Angela, Adam Giacinto, and William Burns. 2019. *Cultural Resources Inventory Report for the Byron Airport Project, Contra Costa County, California*. Dudek and Associates #9269, Contra Costa County, California.

Burns, William, Sarah Siren, Michael Williams, and Adam Giacinto. 2019. *Cultural and Paleontological Resources Letter Report for the Department of Motor Vehicle Reedley Field Office Replacement Project, City of Reedley, California – Negative Findings*. Dudek and Associates #11574, Reedley, California.

Giacinto, Adam and William Burns. 2019. *Cultural Resources Inventory and Extended Phase I Report for the Hunter Subdivision Project, Napa County, California*. Dudek and Associates #10839, Napa County, California.

Burns, William and Adam Giacinto. 2019. *Cultural Resources Inventory Report: Daylight Legacy Solar Project, Kings County, California*. Dudek and Associates #11047, Kings County, California.

Giacinto, Adam, Kate Kaiser, and William Burns. 2019. *Archaeological Survey Report: State Route 99/Eaton Road Interchange Improvements*. Dudek and Associates #11229, Chico, California.

Hale, Micah, Adam Giacinto, Jessica Colston, and William Burns. 2019. *Cultural Resources Inventory for the Centennial Flats Project, La Paz County, Arizona*. Dudek and Associates #11557, La Paz County, Arizona.

Giacinto, Adam and William Burns. 2019. *Cultural Resources Inventory Report for the El Dorado Hills Wastewater Collection Facility Relocation Project, El Dorado County, California*. Dudek and Associates #8858, El Dorado County, California.

Burns, William and Adam Giacinto. 2018. *Cultural Resources Inventory Report for the Fairgrounds Drive Subdivision Project, City of Sacramento, California – Negative Findings*. Dudek and Associates #11482, Sacramento, California.

Steffen, Fallin, Nicole Frank, William Burns, and Samantha Murray. 2018. *Cultural Resources Technical Report for the Keats Building and Amphitheater, California State University, Fresno*. Dudek and Associates #11446, Fresno, California.

Burns, William and Adam Giacinto. 2018. *Cultural Resources Inventory Report: Tres Amigos Solar Project*. Dudek and Associates #10857, Los Banos, California.

Burns, William. 2018. *Archaeological Survey Report for the North 16th Street Streetscape, City of Sacramento, California*. Dudek and Associates #10392, Sacramento, California.

Giacinto, Adam, Burns, William, Brady, Ryan, and Micah J. Hale. 2018. *Cultural Resources Inventory Report for the Gonzaga Ridge Wind Repowering Project, Merced County, California*. Dudek and Associates #10506, Merced County, California.

Burns, William. 2018. *Underwater Cultural Resources Investigation Report for the Wheeler North Reef Expansion Project, City of San Clemente, California*. Dudek and Associates #10831, San Clemente, California.

Burns, William, Sarah Siren, Michael Williams and Adam Giacinto. 2018. *Cultural and Paleontological Resources Inventory Report for the South Lake Solar Energy Project, Fresno County, California*. Dudek and Associates #9755, Fresno County, California.

Burns, William. 2018. *Cultural Resources Letter Report for the North Natomas Aquatics and Community Center Project, City of Sacramento, California*. Dudek and Associates #10626, Sacramento, California.

Burns, William. 2018. *Cultural Resources Inventory Report for the Orchard Creek Apartments Project, City of Rocklin, California – Negative Findings*. Dudek and Associates #10696, Rocklin, California.

Burns, William, Jennifer DeAlba, Michael Williams and Adam Giacinto. 2018. *Cultural and Paleontological Resources Inventory Report for the Auburn Interfaith Food Closet Project, Placer County, California*. Dudek and Associates #11099, Placer County, California.

Burns, William and Angela Pham. 2018. *Cultural Resources Letter Report for the Delano DMV Field Office Replacement Project, City of Delano, California*. Dudek and Associates #9002, Delano, California.

Burns, William and Adam Giacinto. 2018. *Cultural Resources Inventory Report for the Tres Amigos Solar Project, Merced County, California*. Dudek and Associates #10857, Merced County, California.

Giacinto, Adam and William Burns. 2018. *Cultural Resources Inventory Report for the Marin Country Club Stream Restoration Project, Novato, California*. Dudek and Associates #8569, Novato, California.

Giacinto, Adam, Angela Pham and William Burns. 2018. *Cultural Resources Inventory for the 6500 Lakeville Highway Dock Project, Sonoma County, California*. Dudek and Associates #10673, Sonoma County, California.

Dotter, Kara, Sarah Corder, William Burns, and Adam Giacinto. 2017. *Historical Resources Technical Report for Siskiyou Hall, California State University, Chico Campus*. Dudek and Associates #10174, Encinitas, California.

Burns, William and Adam Giacinto. 2017. *Cultural Resources Inventory Report for the River Bluff Lower Terrace River, City of Ceres, California*. Dudek and Associates #10083, Encinitas, California.

Burns, William, Kara Dotter, and Adam Giacinto. 2017. *Cultural Resources Inventory Report for the Bellevue 7 Ranch Project, City of Santa Rosa, California.* Dudek and Associates #9931, Encinitas, California.

Corder, Sarah, Samantha Murray, William Burns, and Adam Giacinto. 2017. *Cultural Resources Study for the Castilleja School Project, City of Palo Alto, Santa Clara County, California.* Dudek and Associates #10056, Encinitas, California.

Giacinto, Adam and William Burns. 2017. *Cultural and Paleontological Resources Inventory for the McCown Minor Land Division Project, Placer County, California.* Dudek and Associates #9985, Encinitas, California.

Giacinto, Adam, William Burns, and Micah Hale. 2017. *Cultural Resources Inventory Report for the 2017 Flume Replacement Project, El Dorado County, California.* Dudek and Associates #8858, Encinitas, California.

Burns, William, Micah Hale, and Adam Giacinto. 2016. *Cultural Resources Inventory Report for the Peach Tree Solar Project, Yuba County, California.* Dudek and Associates #10037, Encinitas, California.

DeCarlo, Matthew, William Burns, and Adam Giacinto. 2016. *Cultural Resources Inventory Report for the Auburn Area Recreation and Parks District's Riparian Vegetation Management Project, Placer County.* Dudek and Associates #9798, Encinitas, California.

Burns, William. 2016. *Cultural Resources Report for the Proposed Las Gallinas Sanitary District - Secondary Treatment Upgrade Project, Marin County.* Dudek and Associates #9279, Encinitas, California.

Burns, William. 2016. *Cultural Resources Letter Report for the Arden Gateway Project, City of Sacramento, California.* Dudek and Associates #9805, Encinitas, California.

Giacinto, Adam, William Burns, and Angela Pham. 2016. *Cultural Resources Inventory and Extended Phase I Report for the Rohnert Park Water Tank Project, Sonoma County.* Dudek and Associates #9810, Encinitas, California.

Burns, William and Brad Comeau. 2015. *Negative Cultural Resources Report for the Yorba Avenue Commerce Center, Chino, California.* Dudek and Associates #9105, Encinitas, California.

Comeau, Brad, William Burns, and Micah Hale. 2015. *Cultural Resources Monitoring Report for the SCE Bishop Service Center Project, Inyo County, California*. Dudek and Associates #8392, Encinitas, California.

Comeau, Brad, William Burns, and Micah Hale. 2015. *Cultural Resources Monitoring Report for the Palm Avenue Commerce Center, San Bernardino, California*. Dudek and Associates #8830, Encinitas, California.

Comeau, Brad, William Burns, and Micah Hale. 2015. *Cultural Resources Monitoring Report for the LOSSAN San Onofre to Pulgas Double Track Project, San Diego County, California*. Dudek and Associates #6518, Encinitas, California.

Comeau, Brad, Scott Wolf, Adriane Dorrler, and William Burns. 2015. *Cultural Monitoring and Site Evaluation for the Academy of Our Lady of Peace Parking Lot, San Diego, California*. Dudek and Associates #8407, Encinitas, California.

Wolf, Scott, Brad Comeau, William Burns, and Micha Hale. 2015. *Cultural Resources Report for the Proctor Valley Village 14 & Preserve Project, San Diego County, California.* Dudek and Associates #8447, Encinitas, California.

Burns, W. and H. Hebster. 2014. *Intensive (Locational) Survey of Long Pond Wastewater Treatment Plant, Falmouth, Massachusetts.* Public Archaeology Laboratory Report, Pawtucket, Rhode Island.

Burns, W. and A. Leveillee. 2014. *Site Examination of New London Quartzite Quarry, Warwick, Rhode Island*. Public Archaeology Laboratory Report. Pawtucket, Rhode Island.

Burns, W. and A. Leveillee. 2014. *Intensive (Locational) Survey of Narragansett Longhouse Trail Improvements.* Charlestown, Rhode Island. Public Archaeology Laboratory Report, Pawtucket, Rhode Island.

Burns, W. 2010. "Getting Their Bearings: A Comparative Study of the First Seafarers in Australasia and the Aegean Sea." Master's thesis; University of York, United Kingdom.

Burns, W. 2010. "Quartz Clues: What Lithics Can Reveal About Migration Routes in Scandinavia." Paper presented at the Eighth Annual Mesolithic in Europe Conference, Santander, Spain.

Burns, W., A.E. Lewis, E.L. Bell, and T. Hollis, eds. 2009. "Bibliography of Archaeological Survey and Mitigation Reports: Massachusetts. 2009." 2006-2007 Annual Supplement. Massachusetts Historical Commission, Boston, Massachusetts.

Burns, W., R. Paynter, K. Lynch, B. Comeau, T. Ostrowski, R. Morales, M. Garber, E. Norris, and Q. Lewis. 2005. "The Burghardts of Great Barrington: The View from the W.E.B. DuBois Boyhood Homesite." Paper presented to the Society for Post-Medieval Archaeology and Society for Historical Archaeology Joint Meeting, York, United Kingdom.

Burns, W. 2004. "Newport's Infamous Slaver Wreck." Paper presented at the 44th Annual Northeastern Anthropological Association Conference, Dartmouth College, Hanover, New Hampshire.

Burns, W. 2004. "Investigations of Reputed Slave Ship, The Gem." Bachelor's thesis; University of Massachusetts, Amherst, United States.

Sarah Corder, MFA

Senior Architectural Historian

Sarah Corder is an architectural historian with more than 13 years of professional experience throughout the United States in all elements of cultural resources management, including project management, intensive-level field investigations, architectural history studies, and historical significance evaluations in consideration of the California Register of Historical Resources (CRHR) Register, and the National Register of Historic Places (NRHP), and local-level evaluation criteria. Ms. Corder has conducted numerous historical resource evaluations and developed detailed historic context statements for a multitude of property types and architectural styles, including private residential, commercial, industrial, educational, and agricultural properties. She has also provided expertise on numerous projects requiring conformance with the *Secretary of the Interior's Standards for the Treatment of Historic Properties*. Ms. Corder meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and History. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA).

Education

Savannah College of Art and Design
MFA, Historic Preservation, 2004

Bridgewater College
BA, History, 2002

Professional Affiliations

National Trust for Historic Preservation

Los Angeles Conservancy

California Preservation Foundation

Society for Architectural Historians

Relevant Dudek Project Experience

Municipal

Gilroy Citywide Historic Resources Inventory and Historic Context Statement, City of Gilroy, Gilroy, California. Dudek is currently working with the City of Gilroy to prepare a citywide historic context statement and update its 1986 historic resource inventory. As survey lead, Ms. Corder has already successfully completed reconnaissance-level survey of over 3,400 properties on time and within budget, submitted a draft historic context statement to the city, and has hosted a public kick-off meeting/outreach session that was well received by the community. Dudek has developed highly detailed and efficient iPad field forms that allow surveyors to record a property in less than 5 minutes and provide the City with real-time survey data.

The Santa Monica City Yards Master Plan Project, City of Santa Monica, Los Angeles County, California. The City of Santa Monica retained Dudek to complete a cultural resources study for the proposed City Yards Master Plan project site located at 2500 Michigan Avenue in the City of Santa Monica. The study involved evaluation of the entire City Yards site, including two murals and a set of concrete carvings for historical significance and integrity. As a result, the City Yards and its associated public art work was found ineligible under all designation criteria. Ms. Corder conducted building permit research and co-authored the technical report.

LADWP West Los Angeles District Yard Project, City of Los Angeles, Los Angeles County, California. Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes demolition of five LADWP-owned administrative buildings and warehouses at the West Los

Angeles District Headquarters located at 12300 West Nebraska Avenue. Dudek evaluated the yard for historical significance in consideration of NRHP, CRHR, and City of Los Angeles HCM criteria and integrity requirements. Ms. Corder's responsibilities for the project included the following: architectural history field survey and background research.

San Diego Dam and Reservoir Citywide Inventory, City of San Diego Public Utilities Department, San Diego, California. Dudek is currently in the process of preparing a historic context statement and significance evaluation of all dam infrastructure owned by the City's Public Utilities Department. The project involves evaluation of at least 10 dam complexes for historical significance in consideration of NRHP, CRHR, and City designation criteria and integrity requirements. While the project is still in progress, Ms. Corder has contributed extensively to archival research and has authored individual historic resource reports for Lower Otay Dam and El Capitan Dam.

Development

Carol Kimmelman Sports and Academic Center Project, City of Carson, Los Angeles County, California. Dudek was retained to conduct a cultural resources study on the Victoria County Golf Course and associated recreation buildings for the proposed Kimmelman Sports and Academic Center. For the project, Ms. Corder conducted a record search, a pedestrian survey, archival and building development research, NRHP and CRHR evaluations, and impacts analysis. As a result of the historic significance evaluation, all golf course components associated with the Victoria County Golf Course were found not eligible under designation requirements. The project proposed to redevelop 87 acres of the northeastern portion Victoria Golf Course site for public recreation purposes, including 75,000 sq. ft. recreational buildings, and 22,000 sq. ft. of support buildings.

Victoria Greens Project, City of Carson, Los Angeles County, California. Dudek was retained by the City of Carson Planning Division for a cultural resource inventory of three parcels at the intersection of Central Avenue and Victoria Street. Ms. Corder's responsibilities for the project included the following: architectural history field survey, building permit research, background research, preparation of DPR forms and authoring the cultural resources report. The project proposed to develop 176 new three-story townhomes on currently unused land on the northeast corner of Central Avenue and Victoria Street in the City of Carson.

Blue Diamond Growers A Street Annex Project, City of Sacramento, Sacramento County, California. Dudek was retained by Dreyfuss and Blackford Architecture to prepare a cultural resources evaluation for the proposed demolition of the A Street Annex building constructed in 1926 and currently located on the Blue Diamond Growers Complex in Sacramento. Ms. Corder's responsibilities for the project included the following: architectural history field survey, building permit research, background research, preparation of DPR forms for the evaluation of built resources, and co-authoring the cultural resources report.

The 1431 El Camino Real Project, City of Burlingame, San Mateo County, California. The City of Burlingame proposes to demolish an existing four-unit (two-story) apartment building along with the detached five-car garage structure at the rear and construct a new six-unit (three-story) townhouse complex. The property at 1431-1433 El Camino Real was constructed in 1947 and required evaluation for historical significance. Further, because the property requires a Caltrans encroachment permit, a Caltrans-compliant Historical Resources Compliance Report (HRCR) was prepared. In addition to evaluating the building at 1431 El Camino, Dudek also had to address impacts to an NRHP-listed tree row within the project area. Ms. Corder's responsibilities on the project included the following: background research, building permit research, co-authoring the final cultural report, and preparation of State of California Department of Parks and Recreation Series 523 Forms (DPR Forms) for the evaluation of built resources.

Village 3 HomeFed Otay Park Swap, Otay Ranch, Chula Vista, California. Dudek was retained to prepare a Constraints Analysis for the development of approximately 100 acres of land south of the Otay River as an active

recreation site. Ms. Corder's responsibilities for the project included the following: background research and assistance in the preparation of the historic context for the report.

Education

CSU Chico Master Plan EIR. Dudek was retained to evaluate all buildings and structures on campus over 45 years old that were proposed for demolition or substantial alteration as part of the proposed Master Plan Program. The study entailed conducting archival and building development research, a records search, detailed impacts assessment, and development of mitigation measures for project conformance with the Secretary of the Interior's Standards for Rehabilitation. Ms. Corder is in charge of the campus field survey and archival research tasks for the project, as well as, co-authoring the technical report.

San Francisco State University Master Plan EIR. Dudek was retained to evaluate all buildings and structures on campus over 45 years old that were proposed for demolition or substantial alteration as part of the proposed Master Plan Program. The study entailed conducting archival and building development research, a records search, detailed impacts assessment, and development of mitigation measures for project conformance with the Secretary of the Interior's Standards for Rehabilitation. Ms. Corder is in charge of the campus field survey and archival research tasks for the project, as well as, co-authoring the technical report.

CSU Chico College Park Demolition Project, Butte County, California. Dudek was retained by California State University (CSU), Chico to complete a cultural resources study for a project that proposes demolition of 10 single-family residences near the CSU Chico campus in the City of Chico, Butte County, California. The study involved completion of a California Historical Information System (CHRIS) records search, outreach with the Native American Heritage Commission (NAHC) and local tribes/groups, a pedestrian survey of the project area for built-environment resources; conducting archival and building development research for each property; outreach with local libraries, historical societies, and advocacy groups; and completion of a historic context and evaluation of 10 properties for historical significance. All 10 properties evaluated for historical significance appear to be not eligible for inclusion in the NRHP, CRHR, CHL, or local register (6Z) due to a lack of significant historical associations and integrity issues.

John Adams Middle School Auditorium Replacement Project, City of Santa Monica, Los Angeles County, California. The Santa Monica-Malibu Unified School District retained Dudek write the Final Mitigated Negative Declaration for the John Adams Middle School Auditorium Replacement Project for the Santa Monica-Malibu Unified School District. The project proposed to demolish the existing auditorium and music building and replace them with a new performing arts center.

Castilleja School Project, City of Palo Alto, Santa Clara County, California. Dudek was retained by the City of Palo Alto to conduct a cultural resources study for the Castilleja Master Plan and Conditional Use Permit project. The study included a historical significance evaluation of the campus and related buildings and structures. Ms. Corder's responsibilities for the project included the following: architectural history field survey, background research, preparation of DPR forms for the evaluation of built resources, and co-authoring the cultural resources report.

CSU Chico Siskiyou Hall Project, Butte County, California. Dudek was retained by California State University (CSU), Chico to complete a historic resources technical report for Siskiyou Hall. The purpose of this technical report is to evaluate the built environment resources located on the parcel for the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and California Historical Landmarks (CHL) to satisfy requirements of the California Environmental Quality Act and California Public Resources Code 5024 and 5024.5 for state-owned properties. Ms. Corder's responsibilities for the project included the following: architectural history field survey and archival research.

Fullerton College Facilities Master Plan Program EIR, North Orange County Community College District, City of Fullerton, Orange County, California. The North Orange County Community College District (NOCCCD) contracted

Dudek to evaluate all buildings and structures on campus over 45 years old that were proposed for demolition or substantial alteration as part of the proposed Master Plan Program. The study entailed conducting archival and building development research, a records search, detailed impacts assessment, and development of mitigation measures for project conformance with the Secretary of the Interior's Standards for Rehabilitation. As a result of the significance evaluation, three historic districts and one individually eligible building were identified within the project area.

Yosemite Avenue-Gardner Avenue to Hatch Road Annexation Project, City of Merced, Merced County, California. Dudek was retained to prepare a cultural resources evaluation for a project that proposes to annex 70 acres from Merced County to the City of Merced and to construct and operate the University Village Merced Student Housing and Commercial component on an approximately 30-acre portion of the project site. The evaluation included a single-family residence/agricultural property located within the project site. Ms. Corder's responsibilities for the project included the following: background research, preparation of DPR forms for the evaluation of built resources, and co-authoring the cultural resources report.

State

Judicial Council of California Historical Resource Evaluation Report for the Santa Monica Courthouse, City of Santa Monica, Los Angeles County, California. Dudek was retained by the Judicial Council of California (JCC) to prepare an evaluation of the Santa Monica Courthouse building, located at 1725 Main Street in the City of Santa Monica, California. To comply with Public Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL). The Santa Monica Courthouse was found not eligible for designation under all applicable criteria. Ms. Corder's responsibilities for the project included archival research and co-authoring the cultural resources report.

Judicial Council of California Historical Resource Evaluation Report for the Figueroa Division Courthouse, City of Santa Barbara, Santa Barbara County, California. Dudek was retained by the Judicial Council of California (JCC) to prepare an evaluation of the Santa Monica Courthouse building, located at 118 E. Figueroa Street in the City of Santa Barbara, California. To comply with Public Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL). The Figueroa Division Courthouse was found not eligible for designation under all applicable criteria. Ms. Corder's responsibilities for the project included the following: background research and co-authoring of the final cultural resources report.

Department of General Services Historical Resource Evaluation for the Normal Street Department of Motor Vehicles Site at 3960 Normal Street, San Diego, California. Dudek was retained by the State of California Department of General Services to complete a Historical Resources Technical Report for a project that proposes demolition and replacement of the Department of Motor Vehicles (DMV) building located at 3960 Normal Street in the City of San Diego. To comply with Public Resources Code Section 5024(b), DGS must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under DGS's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or that may be eligible for registration as a California Historical Landmark (CHL). The DMV was found not eligible. Ms. Corder's responsibilities for the project included background research for the historical resource technical report.

Samantha Murray, MA

Historic Built Environment Lead / Senior Architectural Historian

Samantha Murray is a senior architectural historian with 14 years' professional experience in in all elements of cultural resources management, including project management, intensive-level field investigations, architectural history studies, and historical significance evaluations in consideration of the California Register of Historical Resources (CRHR), the National Register of Historic Places (NRHP), and local-level evaluation criteria. Ms. Murray has conducted hundreds of historical resource evaluations and developed detailed historic context statements for a multitude of property types and architectural styles, including private residential, commercial, industrial, educational, medical, ranching, mining, airport, and cemetery properties, as well as a variety of engineering structures and objects. She has also provided expertise on numerous projects requiring conformance with the *Secretary of the Interior's Standards for the Treatment of Historic Properties*.

Education

California State University, Los Angeles
MA, Anthropology, 2013

California State University, Northridge
BA, Anthropology, 2003

Professional Affiliations

California Preservation Foundation

Society of Architectural Historians

National Trust for Historic Preservation

Registered Professional Archaeologist

Ms. Murray meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and Archaeology. She is experienced managing multidisciplinary projects in the lines of transportation, transmission and generation, federal land management, land development, state and local government, and the private sector. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA). She also prepared numerous Historic Resources Evaluation Reports (HRERs) and Historic Property Survey Reports (HPSRs) for the California Department of Transportation (Caltrans).

Dudek Project Experience (2014-2019)

Development

Birch Specific Plan 32-Unit Condo Project, City of Carson, Los Angeles County, California (2018). Dudek was retained by the City of Carson to prepare a cultural resources report for a project that proposes to demolish approximately 6,200 square feet of existing residential buildings and roughly 5,850 square feet of pavement on the project site, and construct a 32-unit residential condominium community with on-grade parking, landscaping, and other associated improvements. The historical significance evaluation included three residential properties proposed for demolition. All properties were found not eligible under all designation criteria and integrity requirements. Ms. Murray provided QA/QC of the final cultural resources report.

Stickleback Movie Ranch Property Evaluation, Los Angeles County, California (2018). Dudek was retained by the Metropolitan Water District of Southern California to complete a historical resource significance evaluation of the Stickleback Movie Ranch property, located in unincorporated Los Angeles County near Santa Clarita, California.

The study included a CHRIS records search of the Stickleback Movie Ranch property and a 0.25-mile radius; a pedestrian survey of the subject property for cultural resources; building development and archival research; recordation and evaluation of cultural resources identified within and around the Stickleback Movie Ranch portion of the study area; and an assessment of potential impacts to historical resources in conformance with CEQA and all applicable local municipal code and planning documents. The former Stickleback Movie Ranch and all associated buildings and structures were found not eligible under all NRHP, CRHR, and Los Angeles County designation criteria.

Healthcare

Kaiser Permanente Los Angeles Specialty Medical Center Project, Los Angeles, Los Angeles County, California (2019). Dudek prepared a Historical Resource Assessment for the Kaiser Permanente Los Angeles Specialty Medical Center at 755-765 W. College Street in Los Angeles. Preparation of the report involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations for buildings greater than 45-years in age, and DPR forms for the medical center buildings and structures that are proposed for demolition as part of the multi-phase project. As a result of the evaluations, all buildings were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements. Ms. Murray provided QA/QC of the report and guidance on approach.

Kaiser Permanente Los Angeles Medical Center Project, Los Angeles, Los Angeles County, California (2018). Dudek prepared a Cultural Resources Report that involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations, and DPR forms for six buildings greater than 45-years in age that are proposed for demolition as part of the multi-phase project. As a result of the evaluations, all buildings proposed for demolition were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements.

Municipal

LACSD Gardena Pumping Station Project, Sanitation Districts of Los Angeles County, Gardena, California (2019). Dudek prepared a Cultural Resources Technical Report for the Gardena Pumping Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and State of California Department of Parks and Recreation Series 523 forms (DPR forms) for each building of the project. The project proposed to remove the 1929 and 1960 pumping plant above and below-ground structures, and two adjacent parcels containing commercial buildings (1954, 1957) and replace them with a larger capacity pumping plant facility. Ms. Murray provided oversight of all built environment components and provided QA/QC of all documents.

LADWP De Soto Trunk Line Project, City of Los Angeles, Los Angeles County, California (2018). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the De Soto Trunk Line Project. LADWP is proposing the replacement of portions of four existing water pipelines: De Soto, Roscoe, Canoga Topham, and Ventura Trunk Lines. The portions of the existing trunk lines that are proposed for replacement are aging, deteriorating, and nearing the end of their service life. As such, LADWP is proposing to replace these segments with new pipeline. The regulatory framework is CEQA Plus, as such the project was also subject to compliance with Section 106 of the NHPA. Ms. Murray provided QA/QC of the cultural resources report.

The Santa Monica City Yards Master Plan Project, City of Santa Monica, Los Angeles County, California (2017). The City of Santa Monica retained Dudek to complete a cultural resources study for the proposed City Yards Master Plan project site located at 2500 Michigan Avenue in the City of Santa Monica. The study involved evaluation of the entire City Yards site, including two murals and a set of concrete carvings for historical

significance and integrity. As a result, the City Yards and its associated public art work was found ineligible under all designation criteria. Ms. Murray conducted the intensive level survey, building permit research, co-authored the technical report, and provided QA/QC of the final cultural resources report.

148 North Huntington Street, City of Pomona, Los Angeles County, California (2017). Dudek was retained by the City of Pomona to conduct a cultural resources study for the remediation of the project site located at 148 North Huntington Street. The proposed project involves the excavation, removal, and off-site treatment of approximately 10,000 Cubic Yards (CYs) of contaminated soil due to the former presence of a manufactured gas plant (MGP) at the project site (currently the City of Pomona Water and Wastewater Yards). All buildings over 45 years of age within the project site were evaluated for the CRHR and local landmark eligibility as part of the Pomona Gas Plant site. The site was found not eligible with concurrence from the historic resources commission. Ms. Murray conducted the survey, prepared the evaluation, and authored the cultural resources report.

LADWP West Los Angeles District Yard Project, City of Los Angeles, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes demolition of five LADWP-owned administrative buildings and warehouses at the West Los Angeles District Headquarters located at 12300 West Nebraska Avenue. Dudek evaluated the yard for historical significance in consideration of NRHP, CRHR, and City of Los Angeles HCM criteria and integrity requirements. Ms. Murray co-authored the significance evaluation and provided QA/QC of the cultural resources report.

LADWP Haynes Generating Station Units 3 through 6 Demolition Project, City of Long Beach, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes demolition of Units 3-6 at the LADWP Haynes Generating Station. Ms. Murray evaluated the entire steam plant for historical significance in consideration of NRHP, CRHR, and City of Long Beach designation criteria and integrity requirements, and co-authored the cultural resources report.

LADWP Green Verdugo Reservoir Improvement Project, City of Los Angeles, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes facility updates at the reservoir site in order to ensure safe water quality. Ms. Murray evaluated the reservoir for historical significance in consideration of NRHP, CRHR, and City of Los Angeles HCM designation criteria and integrity requirements, and co-authored the cultural resources report.

LADWP Upper Stone Canyon Reservoir Water Quality Improvement Project, City of Los Angeles, Los Angeles County, California (2016). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes to maintain and improve the quality, reliability, and stability of the Stone Canyon Reservoir Complex (SCRC) service area drinking water supply in order to continue to meet customer demand. Dudek prepared an updated evaluation of the reservoir in consideration of NRHP, CRHR, and City of Los Angeles HCM criteria and integrity requirements. Ms. Murray conducted the built environment survey, archival research, and co-authored the cultural resources report.

LADWP Power Plant 1 Long-Term Maintenance Program Project, City of Los Angeles, Los Angeles County, California (2016). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the proposed long-term maintenance of the flood control infrastructure in the vicinity of Power Plant 1. Ms. Murray prepared the cultural resources impacts assessment, co-authored the cultural resources report, and provided QA/QC of the cultural resources technical report.

State of California

Judicial Council of California Historical Resource Evaluation Report for the Stanley Mosk Courthouse, City of Los Angeles, Los Angeles County, California (2019). Dudek was retained by the Judicial Council of California (JCC) to

prepare an evaluation of the Stanley Mosk Courthouse building, located at 111 N. Hill Street in the City of Los Angeles, California. To comply with Public Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL). Extensive research indicates that the building meets NRHP Criteria A and C; CRHR Criteria 1 and 3; the "important events" and "architecture" criteria for CHL; the "important to Los Angeles history" and "architecture" criteria for Los Angeles HCM; and Criteria 1, 2, and 3 for Los Angeles HPOZ for listing in any of these registration programs. Therefore, the Stanley Mosk Courthouse appears to be a historic resource for the purposes of California Public Resources Code 5024 and 5024.5. Ms. Murray managed the project and provided QA/QC of the final report.

Judicial Council of California Historical Resource Evaluation Report for the Santa Monica Courthouse, City of Santa Monica, Los Angeles County, California (2017). Dudek was retained by the Judicial Council of California (JCC) to prepare an evaluation of the Santa Monica Courthouse building, located at 1725 Main Street in the City of Santa Monica, California. To comply with Public Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL). The Santa Monica Courthouse was found not eligible for designation under all applicable criteria. Ms. Murray co-authored the report and provided QA/QC of the final cultural resources report.

Department of General Services Historical Resource Evaluation for the Pomona Armory at 600 South Park Avenue, City of Pomona, Los Angeles County, California (2017). Dudek was retained by the State of California Department of General Services to mitigate potential adverse effects to the Pomona Armory (600 South Park Avenue), a state-owned historical resource proposed to be transferred from State-ownership to a local agency or private owner. Ms. Murray prepared a detailed significance evaluation for the Pomona Park Armory in the consideration NRHP, CRHR, CHL, and City of Pomona designation criteria and integrity requirements, and prepared a single historic landmark application for the property. The Pomona Park Armory was locally designated after unanimous approval by the Historic Resources Commission and City Council. SHPO concurred with the evaluation findings and agreed that adverse effects had been adequately mitigated with no comments.

Presentations

***Historical Resources under CEQA*. Prepared for the Orange County Historic Preservation Planner Working Group. Presented by Samantha Murray, Dudek. December 1, 2016.** Ms. Murray delivered a one-hour PowerPoint presentation to the Orange County Historic Preservation Planner Working Group, which included planners from different municipalities in Orange County, regarding the treatment of historical resources under CEQA. Topics of discussion included identification of historical resources, assessing impacts, avoiding or mitigating impacts, overcoming the challenges associated with impacts to historical resources, and developing effective preservation alternatives.

***Knowing What You're Asking For: Evaluation of Historic Resources*. Prepared for Lorman Education Services. Presented by Samantha Murray and Stephanie Standerfer, Dudek. September 19, 2014.** Ms. Murray and Ms. Standerfer delivered a one-hour PowerPoint presentation to paying workshop attendees from various cities and counties in Southern California. The workshop focused on outlining the basics of historical resources under CEQA, and delved into issues/challenges frequently encountered on preservation projects.

Appendix B

Confidential Records Search Results

Appendix C

Native American Heritage Commission
Sacred Lands File Search Results

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95501
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Pacific Coast Commons Project 12171

County: Los Angeles

USGS Quadrangle

Name: White Water

Township: 3S Range: 15W;14W Section(s): 7,12

Company/Firm/Agency:

Dudek

Contact Person: Ted Roberts

Street Address: 27372 Calle Arroyo

City: San Juan Capistrano Zip: 92675

Phone: (949) 302-3773 Extension:

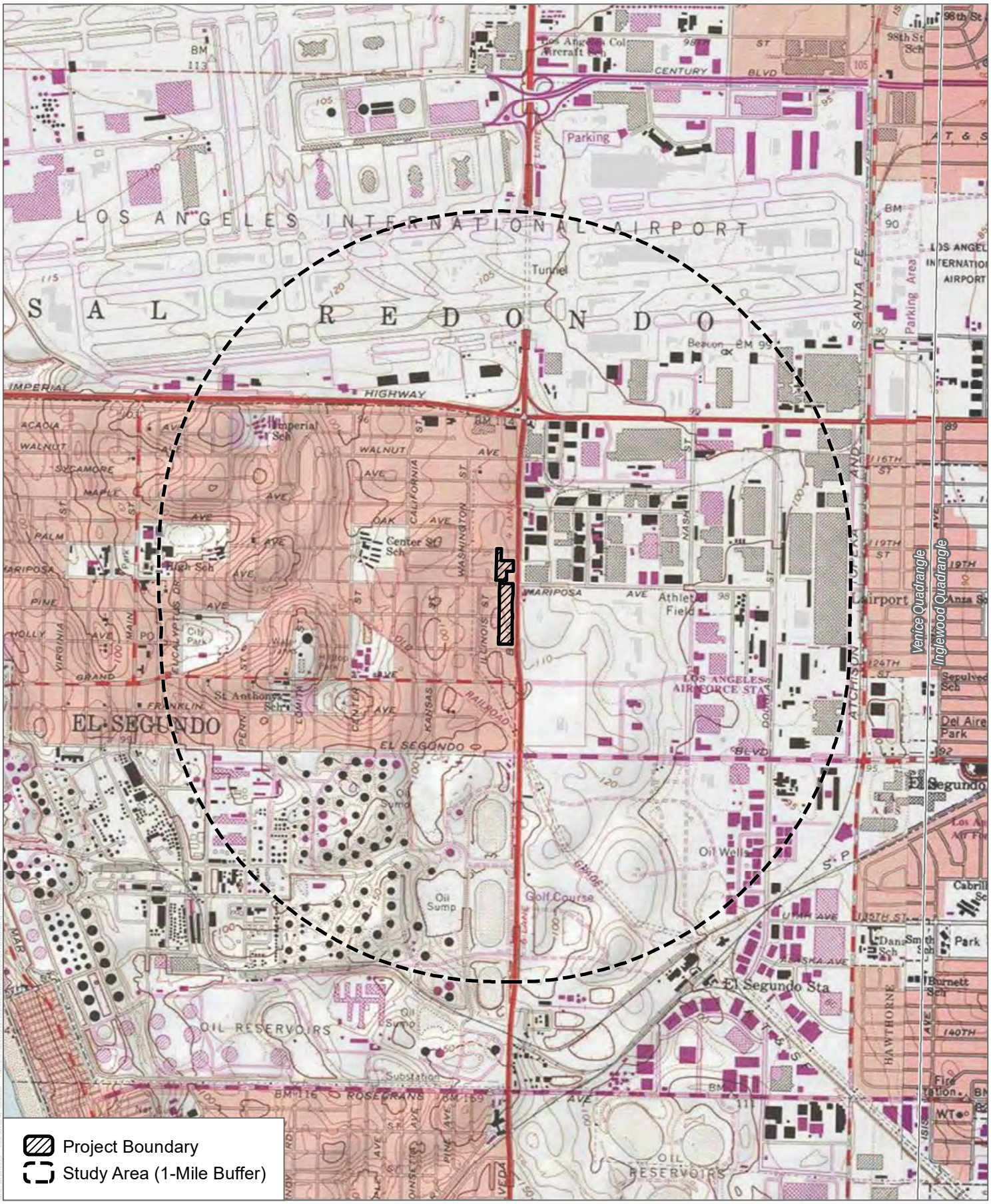
Fax:

Email: troberts@dudek.com

Project Description:

The Project involves the implementation of the proposed Pacific Coast Commons Specific Plan (Specific Plan), which includes approximately 3.84 acres of land located in the City of El Segundo adjacent to Pacific Coast Highway (PCH). The Project would redevelop the existing surface parking lots of the Fairfield Inn & Suites and Aloft Hotel properties, as well as the old Hacienda Restaurant, through the adoption of a Specific Plan that allows for the development of 263 new housing units and 10,800 square feet of commercial/retail uses.

☑ Project Location Map is attached



SOURCE: USGS 7.5-Minute Quadrangle, Venice CA
Township 3S, Range 15W, Section 12; Township 3S, Range 14W, Section 07

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

Records Search

Pacific Coast Commons Specific Plan EIR Project

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

October 28, 2019

Ted Roberts
Dudek

VIA Email to: troberts@dudek.com

RE: Pacific Coast Commons Project, Los Angeles County

Dear Mr. Roberts:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn
Associate Governmental Program Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
10/28/2019

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., Gabrielino
#231
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490 Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Pacific Coast Commons Project, Los Angeles County.

Appendix D

DPR form for Fairfield Inn & Suites (525 Sepulveda Boulevard; APN: 4139-025-091) Property

State of California ♘ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 16 ***Resource Name or #:** (Assigned by recorder) Fairfield Inn & Suites
P1. Other Identifier: Thunderbird Hotel; Hacienda Hotel

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Venice, Calif. **Date** 1981 **Legal:** Sausal Redondo Land Grant
c. Address 525 N. Sepulveda Boulevard City El Segundo Zip 90245
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 370893 mE/ 3754476 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
The proposed Project site is located in the City of El Segundo (City) within the County of Los Angeles, approximately 20 miles southwest from downtown Los Angeles. The subject property, Fairfield Inn & Suites, is located on the southwest corner of Sepulveda Boulevard and Mariposa Avenue. Parcel #: 4139-025-091; Elevation: 122 ft. amsl; Decimal degrees: 33.923061, -118.396705

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The Fairfield Inn & Suites (525 Sepulveda Boulevard) presents as three wings, a main hotel volume which contains the hotel lobby and hotel rooms around an open-air courtyard and pool area, an 8-story wing along Indiana Street, added circa 1960-1962, and a Conference room wing extending the property to Mariposa Avenue, north of the main hotel volume. The buildings are connected by hallways, and suspended pedestrian walkways, and open-wall building connections

***P3b. Resource Attributes:** (List attributes and codes) HP5. Hotel/Motel

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:** ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) East and North elevation of Fairfield Inn & Suites complex, View looking southwest (IMG_8844)

***P6. Date Constructed/Age and Source:** ☒ Historic ☐ Prehistoric ☐ Both
1959 (1961 addition)

***P7. Owner and Address:**
Fairfield Inn & Suites
525 N Sepulveda Boulevard
El Segundo, CA 90245

***P8. Recorded by:** (Name, affiliation, and address) Kate Kaiser, Dudek
38 N Marengo Ave
Pasadena, CA 91101

***P9. Date Recorded:** 2/24/2020
***P10. Survey Type:** (Describe)
pedestrian

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Dudek. 2020. Cultural Resources Technical Report for the Pacific Coast Commons Specific Plan Project, El Segundo, California

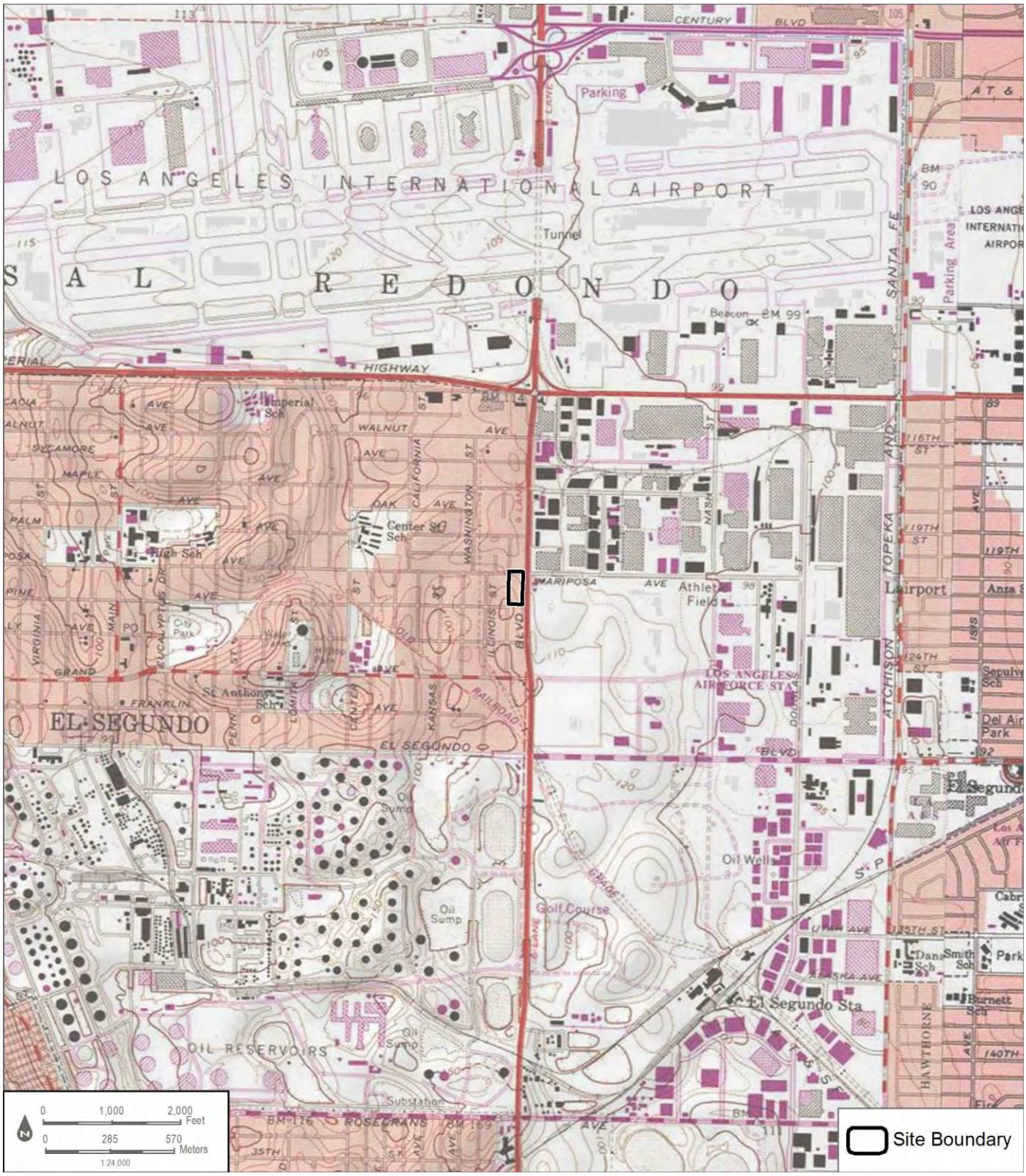
***Attachments:** ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California ♿ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

Page 2 **of** 16 ***Resource Name or #** (Assigned by recorder) _ Fairfield Inn & Suites __
***Map Name:** Venice, Calif ***Scale:** 1:24,000 ***Date of map:** ___1981__



State of California ♄ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Fairfield Inn & Suites ***NRHP Status Code** 6Z
Page 3 **of** 16

B1. Historic Name: Thunderbird Hotel (1959-1965); Hacienda Hotel (1965-circa 2010)
B2. Common Name: Fairfield Inn & Suites
B3. Original Use: Hotel B4. Present Use: Hotel
***B5. Architectural Style:** Mid-Century Modern
***B6. Construction History:** (Construction date, alterations, and date of alterations)

(See Continuation Sheet)

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:** N/A

B9a. Architect: Raymond A. Stickdale (1959), Maxwel Starkham & Assicates (1961)
b. Builder: Tom Fellows & Associates (1961)
***B10. Significance: Theme** **Area**

Period of Significance **Property Type** **Applicable Criteria**
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

(See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes)
***B12. References:**

(See Continuation Sheet)

B13. Remarks:

B14. Evaluator: Kate Kaiser, MSHP
***Date of Evaluation:** 3/19/2020

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



P3a Description (Continued):

Main Hotel Volume (1959)

The main hotel volume presents as a four-story, square plan building with an open-air courtyard and pool in the center. The east elevation presents as only two stories, providing visual access from Sepulveda Boulevard and public right of way into the hotel room area and courtyard. The building features a flat roof with parapet and railing, but have variable heights due to different side heights and protruding elevator towers projecting above the roofline (Figure 1).



Figure 1. Main Hotel volume north (main) and east elevation, porte-cochere at right, view looking southwest (IMG_8858)

Cladding is concrete with regular scoring on the east and north (main) elevations, and painted brick on the south and west elevation (Figure 2). On the west elevation there is an additional, Mid-Century Modern-style, geometric sun shade over the hallway windows, adding restrained decoration to that elevation. The building also features cantilevered porches on the south elevation, separating the individual rooms with metal barriers and railings (Figure 3). Fenestration consists of occasional fixed metal windows on the east elevation; metal-framed, sliding sash glass doors on the south elevation; tripartite sliding windows singly and in pairs as well as metal service doors at the grounds level on the east elevation; and tall, fixed full-height windows and automatic sliding doors, at the lobby level on the main (north) elevation. The main (north) elevation has a covered porte-cochere, providing access from Sepulveda Boulevard. The porte-cochere features four round support posts and a segmental arch roof with skylight.



Figure 2. Main Hotel volume, west elevation, view looking southeast (IMG_8785)



Figure 3. Main Hotel volume, south elevation, view looking northeast (IMG_8800)

Conference Room and Restaurant Wing (1959)

The conference room and restaurant wing presents as multiple volumes with an irregular plan; with one story in front (east elevation) two stories in rear (west elevation). The building's roof presents as multiple roof forms with flat and flat-with parapet roofs as well as a distinctive Mid-Century Modern-style geometric "quilted" roof (variation on a folded plate roof) (Figure 4).



Figure 4. Conference room and restaurant wing, main (east) elevation (IMG_8850)

This wing's main (east) elevation presents as a concrete arcade and shaded walkway on the left, and a late-twentieth century modern building on the right. It features continuous fixed ribbon windows, stucco textured concrete cladding, and neo-traditional Mediterranean details such as a faux stucco, belt course, tilework, and tower volume. The doors on this elevation present as wood and glass doors and a pair of wood double doors surrounded by decorative tilework, keeping with the Mediterranean theme. This wing's north elevation presents as a scored concrete wall on the left (east) side, broken by belt course detailing, and a single wood door surrounded by tile detailing; and a mid-century modern textured (pimpled) brick cladding on the right (west) side. The textured/pimped brick continues onto the west elevation. Fenestration on this elevation is limited to a single door in a recessed vestibule and metal louvered vents (Figure 5).Texture continued partially onto the south elevation, however much of the southern elevation of the building connects to the main hotel volume and was not visible or presented as smooth walled concrete. An entrance along this elevation has a red clay tile stair and metal railing and a glass and steel double door with transom and sidelights. There is a modern mural on the south elevation of this wing, facing towards the hotel entrance and porte-cochere.



Figure 5. Conference room and restaurant wing, north and west elevations (IMG_8839)

Indiana Street Wing (1961)

The Indiana Street wing is an 8-story, narrow, rectangular-plan building. The building features a flat roof with parapet and railing. The building is banked slightly into the hillside, with the uphill portion towards Mariposa Avenue, and a concrete masonry unit (CMU), clad parking level and foundation as the hillside slopes downward and south (Figure 6). The parking area is open area and has regular concrete piers. This building is connected to the main hotel volume by a suspended walkway over a narrow alley and to the restaurant and conference room wing by an open wall connection and stairwell (Figure 7). This building has less overall cladding, and window and plan variability than its connected hotel buildings. Cladding consists of scored concrete on the north and south elevations, and vertically-oriented wood cladding on the east and west elevations. Fenestration is limited to the east and west elevations and consists of single fixed steel-frame windows, over metal louvered vent (air conditioning vent) single and in pairs on the west elevation, and long, full height, fixed window singly or in pairs with metal sun shades or louvered sun shades at top-most portion on the east elevation. Also on the east elevation, there was a large, full height window and large metal louvered vent at south end of east elevation, likely the stairwell and elevator tower.



Figure 6. Indiana Avenue Wing: south and west elevation, looking northeast (IMG_8764)



Figure 7. Indiana Avenue Wing: east elevation and alley, showing hallway connection to main hotel volume, looking south (IMG_8814)

Identified Alterations

Dudek staff visited the City of El Segundo Department on February 25, 2020 and reviewed all available permits pertaining to the subject property (AIN 4139-025-091) The City of El Segundo Department had no permits for the subject property prior to 1980. Observed alterations are also included in this section, and dates stated if known:

- 1961. Indiana Wing addition (no permit #)
- 1965. Name changed to Hacienda Hotel (no permit #)
- 1968. Thunderbird restaurant and coffee shop converted to the Huki Lau, a Polynesian-themed tiki bar (no permit #)
- 1979. 9-story South Tower (now Aloft Hotel) addition completed (ESH 1979)
- 1983. Reroof main hotel volume: change in materials from gravel roof to urethane foam and coating roof system (#A039)
- 1984. Demolish portion of existing sign due to "hazardous condition" (#A285)
- 1987. Remodel of exterior façade (main hotel and restaurant and conference room wing) and accessory structures. Removal and replacement of original canopy and trellis in restaurant and conference room wing. Architect: Albert C Martin & Associates; Contractor KIP Construction (#1337-86)
- 1988. Add 4'x10' sign to wall of existing structure. Contractor: Heath & Co. (#0186-88)
- 1995. Reroof flat roof portions of restaurant and conference room wing. (#1067-95)
- 1998. Replacement exit door. (#0855-98)
- 1999. New pool deck restroom and maintenance room building (#1206-99)
- Date Unknown: Observed cladding replacement in Indiana Street wing
- Date Unknown: Observed window replacement in Indiana Street wing
- Date Unknown: Observed window and door replacements on north elevation of main hotel

B6. Construction History (Continued):

With the rebranding of LAX as an international airport in 1949, large hotels began to be established along Sepulveda Boulevard, the major artery leading to LAX from the south. Prior to the establishment of the hotel, there had been a modest multi-family residential complex at the subject property, surrounded by agricultural fields. In 1957, the City of El Segundo approved preliminary sketches for a $1.5 million hotel, the largest ever in the city, proposed for development by Allen E. Siegal a Hollywood-based hotelier and son, Marc Siegal. The plans, by Southern California architect Raymond A. Stockdale, proposed a 220-room 4-story hotel called the International Thunderbird Hotel and Restaurant. The new hotel was proposed for Sepulveda Boulevard just 1.5-miles south of LAX terminals. The sketches detail a 4-story hotel with two elevators and a swimming pool as well as space on the ground floor for retail shops, a drug store, barbershop, and dry cleaners (Figure 5). The plans also called for a two-story building with a dining room, coffee shop, cocktail lounge, banquet hall for 400 people, and smaller "key room" or conference room. In June 1958, construction of the hotel began (ESH 1957, 1958a, 1958b; UCSB 2020).

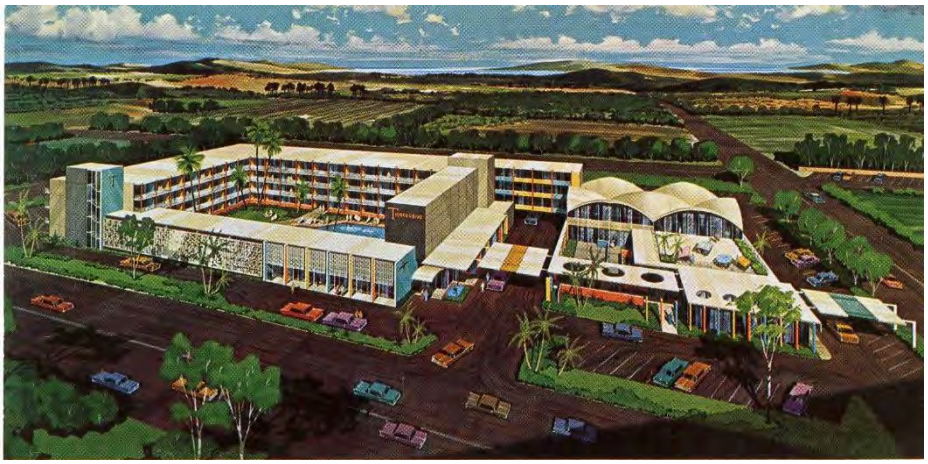


Figure 8. Thunderbird Hotel postcard, Hotels subject file, Local History Collection, El Segundo Public Library

In April 1959, the hotel and five retail stores opened to some fanfare. The retail shops included De Mere fashions, Flair for Beauty, Allen Rabinoff's Shop for Men, Thunderbird Sundries, and Thunderbird Barbershop. The hotel quickly became an activity and event center for the local El Segundo Community, hosting social club dinners and fundraisers. Just six months after their opening, co-owner Marc Siegal submitted an application for zone changes and permits to erect a 7-story, 180-room hotel wing on the rear (west) portion of the property. The new wing was designed by Maxwell Starkham & Associates and contractor Tom Fellows & Associates, and completed in 1961. The construction of the new wing incorporated the "lift-slab" technique to erect the reinforced concrete and curtain wall exterior (Figure 6). The new wing was the first of ten new hotel projects by the father-and-son Siegal team. The Seigals proceeded to open Thunderbird Hotels in San Francisco (1961), Oakland (1962), and two in Hollywood (1963) as part of this three-year expansion plan (ESH 1959a, 1959b; IPT 1963; LAT 1961; Oakland Tribune 1961; SFE 1961).

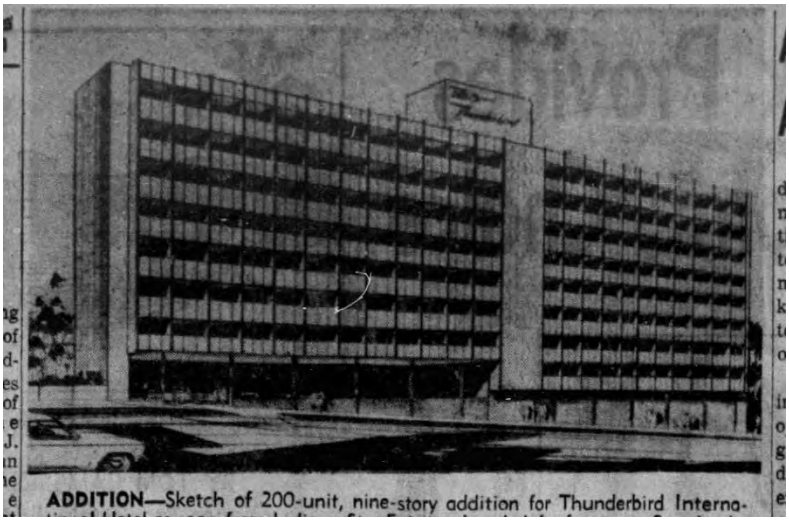


Figure 9. Indiana Street Wing Addition (LAT 1961)

Minor changes to the property occurred in the 1960s. In 1964, a large surface parking lot was added north of the hotel. In 1965, the hotel was sold to the Hacienda hotel chain

based in Las Vegas, Nevada and the hotel name changed to Hacienda Hotel. The hotel sign was changed in 1966. In 1968, the Thunderbird Coffee Shop was converted to the Hukilau Tiki Bar, and a large, abstract, wood boat prow-bird sculpture was added to the front of the restaurant wing (ESH 1964, 1965, 1968; Hotels subject file, Local History Collection, El Segundo Public Library).

In 1979, the hotel added another wing. The 9-story "South Tower" was added as part of a three-phase improvement project. Later this tower was sold and became an independent hotel. Today it is the Aloft Hotel. Probably the biggest change for the property came in 1987, when the entire exterior of the hotel was remodeled by A.C. Martin & Associates (Figure 7). Remodeling resulted in the loss of the original decorative colored curtain wall paneling and pierced ,Mid-century Modern-style screens on the main, Sepulveda Boulevard elevations (ESH 1979; Hotels subject file, Local History Collection, El Segundo Public Library).



Figure 10. Left: view of decorative screen before remodeling, 1980 (Herald Examiner Collection, LAPL); right: same view in 2020 (IMG 8870)

Project Site Architectural Styles

Mid-Century Modern (1933-1965)

Mid-century Modern style is reflective of International and Bauhaus styles popular in Europe in the early 20th century. This style and its living designers (e.g., Mies Van der Rohe and Gropius) were disrupted by WWII and moved to the United States. During WWII, the United States established itself as a burgeoning manufacturing and industrial leader, with incredible demand for modern buildings to reflect modern products in the mid-20th century. As a result, many industrial buildings are often "decorated boxes"—plain buildings with applied ornament to suit the era and appear more modern without detracting from the importance of the activity inside the building. Following WWII, the United States had a focus on forward thinking, which sparked architectural movements like Mid-Century Modern. Practitioners of the style were focused on the most cutting-edge materials and techniques. Architects throughout Southern California implemented the design aesthetics made famous by early Modernists like Richard Neutra and Frank Lloyd Wright, who created a variety of modern architectural forms. Like other buildings of this era, Mid-century Modern buildings had to be quickly assembled, and use modern materials that could be mass-produced. Both residences and offices designed in this style expressed its structure and materials,

displayed large expanses of glass, and had an open interior plan (McAlester 2013; Morgan 2004).
Characteristics of the Mid-Century Modern style:

- One- to two-stories in height
- Low, boxy, horizontal proportions
- Simple geometric forms with a lack of exterior decoration
- Commonly asymmetrical
- Flat roofed without coping at roof line; flat roofs hidden behind parapets or cantilevered canopies
- Expressed post-and-beam construction in wood or steel
- Exterior walls are flat with smooth sheathing and typically display whites, buffs, and pale pastel colors
- Mass-produced materials
- Simple windows (metal or wood) flush-mounted and clerestory
- Industrially plain doors
- Large window groupings

Project Site Architects and Designers

Architect: Raymond A. Stockdale, AIA (1905-1998)

Stockdale was born in London in 1905 and emigrated to the United States in 1922 as a young man. His family lived in Santa Monica and his father worked managing a café. Stockdale worked first as general contractor and draftsman in the 1930s, then received his architect's license in 1943. He joined the Southern California chapter of the American Institute of Architects (AIA) in 1943. Stockdale tended to design residences, banks, and recreation centers in the greater Los Angeles Area in popular modern styles throughout his career such as Mid-Century Modernism, Art Moderne, and New Formalism. He is not associated with any specific styles or trends.
A sample of Stockdale's known work is included below (Koyl 1962; LAC 2020; LAT 1963, 1988; Pomona Progress Bulletin 1958; TJMM 1962):

- Gas station, 110 S Barrington Avenue, Brentwood, Los Angeles (1938)
- Stockdale House, 3256 Hillock Drive,Hollywood Hills, Los Angeles (1949)
- Pomona Grove Apartments, East End Avenue, Pomona (1958)
- Bank of America building, 22241 Pacific Coast Highway, Malibu (1962)
- Malibu Sports and Raquet Club, Malibu (1963)
- Pan American Bank, 3626 E First Street, Los Angeles (1965)

Maxwell Starkham & Associates (1953-present)

Maxwell Starkham & Associates was a Los Angeles-based architecture firm that operated from 1953 to 1987. Mark Starkman, the founder was born in Toronto, Canada, served with the Royal Canadian Engineers during World War II, and then earned an architecture degree from University of Manitoba. Starkman moved to Los Angeles in 1950 and briefly worked for Richard Neutra's firm. The firm began Starkman designing tract homes in the post-World War II housing boom in Southern California. Starkman partnered with Fritz Reichl in the mid-1950s, starting the Maxwell Starkman & Associates firm. The firm specialized in investor-started commercial development with quick turnaround in order to return profits to investors. These were typically office buildings, luxury condominiums, hotels, and mixed-use projects. Later in the company's history they developed specialized large-scale projects such as Melodyland Theater in Anaheim, and the Sony Pictures Plaza in Culver City. Starkman retired from the firm in 1987 and tehe first continues the same work through present (LAT 2004).

Notable examples of Maxwell Starkham & Associates work consists of (LAT 2004; PCAD 2020):

- Glendale Federal Savings and Loan, Glendale, 1959
- Melodyland Theater, Anaheim, 1963
- First Los Angeles Bank, Century City, 1975
- Cedars-Sinai Medical Center, Office Buildings, Los Angeles, 1978-1980
- Filmland Corporate Center (now Sony Pictures plaza), Culver City, 1986

B10. Significance (Continued):

The Fairfield Inn & Suites property (525 Sepulveda Boulevard; APN: 4139-025-091) does not meet any of the criteria for listing in the NRHP or CRHR, either individually or as part of an existing historic district, based on the following significance evaluation.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research indicated that at the time of construction, the Thunderbird Hotel (now Fairfield Inn & Suites) was one of the largest hotel projects in Southern California; however, this achievement was subsequently overshadowed by a suburban hotel building boom throughout the state that persisted alongside a housing and population boom in the 1950s and 1960s. The size of the Thunderbird Hotel and its status as a popular, local banquet hall and meeting center do not appear to have made a significant contribution to the history of the City of El Segundo or State of California's development. Moreover, with subsequent additions and alterations, the building no longer adequately represents the time period in which these events took place. Therefore, the property does not appear eligible under Criterion A of the NRHP or Criterion 1 of the CRHR.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that any previous property owners, employees, or long-term guests are known to be historically significant figures at the national, state, or local level. As such, this property is not known to have any historical associations with people important to the nation's or state's past. Therefore, the property does not appear eligible for the NRHP under Criterion B or CRHR under Criterion 2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The Fairfield Inn & Suites property was constructed in 1959 and received two major additions in 1961 and 1979. The original 1959 hotel volume, 1959 conference room and restaurant wing, and 1961 addition at the time of these construction were excellent examples of the highly artistic Mid-Century Modern-style buildings designed by local Southern California-practicing architects Raymond Stockdale and Maxwell Starkham & Associates. The now-lost character-defining features would have been the curtain wall construction, colored spandrel paneling, cantilevered porches, rectangular and boxy proportions, and decorative concrete and metal screens on the main elevation. Though neither architect could be considered a master architect, the buildings were good examples of their work. However, due to major exterior alterations in 1987, none of the original decorative elements and character-defining features of the Mid-Century Modern buildings remain. The property as a whole has been altered beyond recognition, diminishing the once high artistic value of the property. Finally, due to extensive exterior alterations, the property may no longer be considered representative of a significant and distinguishable entity whose components lack individual distinction. For these reasons, the Fairfield Inn

& Suites property at 525 N Sepulveda Boulevard does not appear eligible for listing in the NRHP under Criterion C or CRHR under Criterion 3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The property is not significant under Criterion D of the NRHP or Criterion 4 of the CRHR as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies.

City of El Segundo Statement of Significance

The City of El Segundo's cultural resource designation criteria is based on a combination of age and NRHP/CRHR designation criteria and integrity requirements. Therefore, for all of the reasons identified in the discussion of NRHP and CRHR eligibility, the subject property does not appear eligible under any local designation criteria, either individually or as part of a district.

Integrity Discussion

The Fairfield Inn & Suites property maintains integrity of location, as it remains in its original location. The Fairfield Inn & Suites property, including all three wings have had major exterior renovations since 1987. While the buildings maintain much of their original plan and structure, key-character defining features of the Mid-Century Modern style building were removed and replaced with ordinary modern materials. Therefore, the Fairfield Inn & Suites property does not maintain integrity of design. The property does not retain integrity of setting, as the setting in all directions has been altered into parking lots, high-rise office or hotels, or strip malls with anchoring grocery and retail stores, in the late 1980s and 1990s. The size, scale, and density of this modern setting would be unrecognizable to a person from the late 1950s or early 1960s. Similar to integrity of design, the Fairfield Inn & Suites property does not maintain integrity of materials and workmanship, due to the loss of the highly artistic concrete and metal screens and introduction of modern materials on the main and side elevations. Key original elements such as the cladding, signage, porte-cochere, decorative elements, windows, and doors have all been removed and replaced. The Fairfield Inn & Suites property does not retain integrity of feeling, as the property no longer retains the ability to express itself as an hotel building constructed in the 1950s, built in the early years of LAX's "jet-age" modernistic expansion. Finally, the property no longer retains integrity of association either with original owners Allen E. and Marc Siegal, or with the original companies: Thunderbird hotel Corporation or Hacienda Hotels. In summary, Fairfield Inn & Suites property does not retain the requisite integrity for designation, and does not rise to the level of significance required for designation at the national, state or local levels.

B12. References (Continued):

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ALBUS-KEEFE & ASSOCIATES, INC.
GEOTECHNICAL CONSULTANTS

August 15, 2019
J.N.: 2808.00

Nick Browne
BRE EL SEGUNDO HOLDCO LLC
525 Pacific Coast Highway
El Segundo, CA 90245

Subject: **Geotechnical Due-Diligence Evaluation, Proposed Retail & Residential Development, ALOFT Development, Sepulveda Blvd. and Mariposa Ave., City of El Segundo, California.**

Dear Mr. Browne,

Albus-Keefe & Associates, Inc. is pleased to present to you our geotechnical due-diligence report for the proposed mixed-purpose development at the subject site. This report presents the results of our review of historical photos, review of previous geotechnical studies for nearby sites contained in our library and at the city of El Segundo, and engineering analyses. Conclusions relevant to the feasibility of the proposed site development are also presented in this report based on the findings of our work.

We appreciate this opportunity to be of service to you. If you have any questions regarding the contents of this report, please do not hesitate to call.

Sincerely,

ALBUS-KEEFE & ASSOCIATES, INC.

David E. Albus
Principal Engineer

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APPENDIX A – Logs and Lab Test Results from Nearby Projects

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of our work was to evaluate the feasibility of proposed site development in order to assist you in your land acquisition evaluation and due-diligence review. The scope of our work for this investigation was focused primarily on the geotechnical issues that we expect to have significant fiscal impacts on future site development. *While this report is comprehensive for the intended purpose, it is not intended for final design purposes. As such, additional geotechnical studies may be warranted based on our review of future rough grading plans and foundation plans.* The scope of our geotechnical due-diligence work included the following:

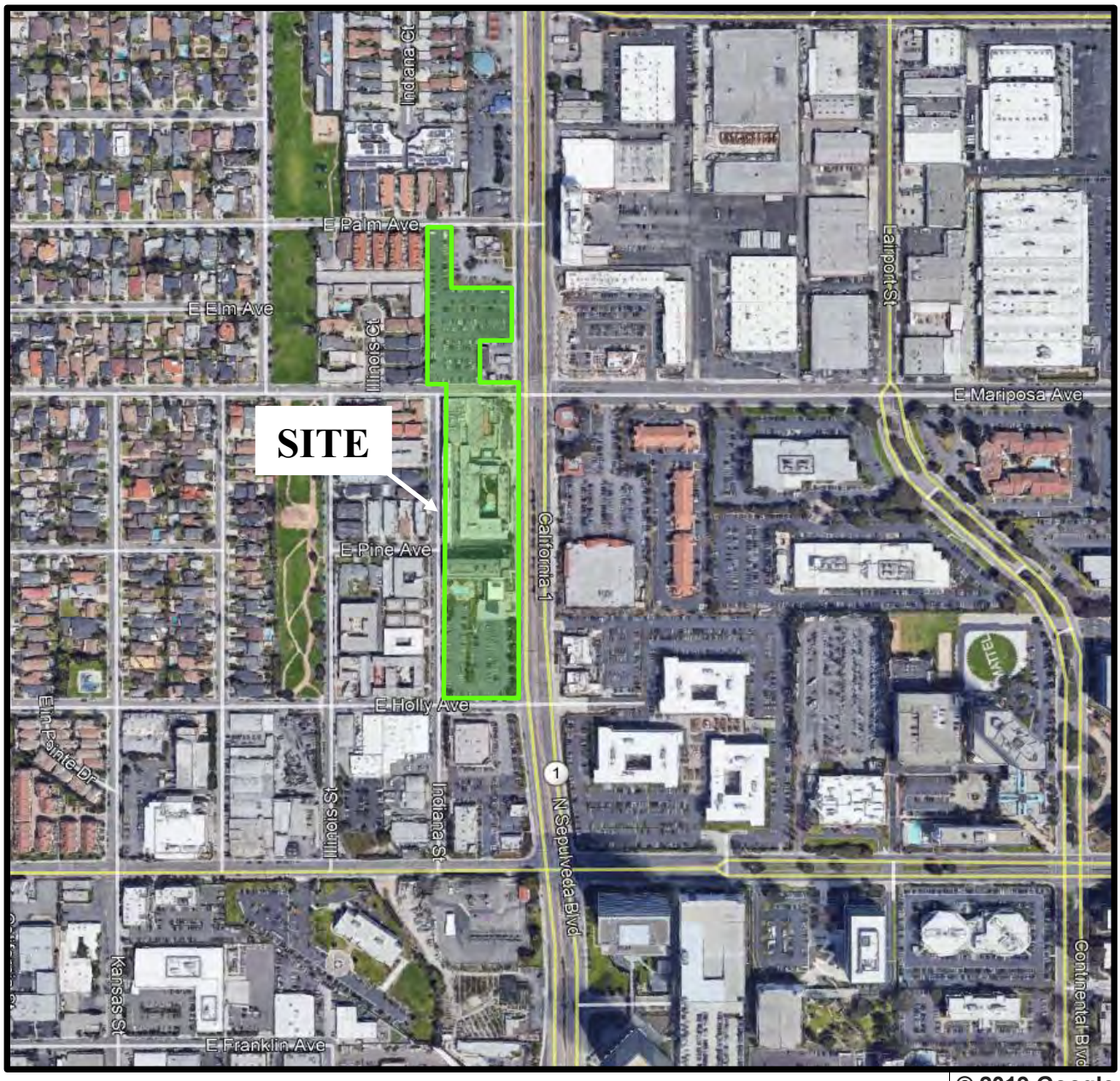
- Review of available geologic publications, aerial photographs, reports, and maps for the site and nearby vicinity that are contained in our in-house library.
- Engineering analyses of data obtained from previous exploration and laboratory testing
- Evaluation of site seismicity, liquefaction potential, and settlement potential of foundations.
- Preparation of this report

1.2 SITE LOCATION AND DESCRIPTION

The site is comprised of ten parcels of land in the city of El Segundo, California as summarized below.

APN	Site Address
4139-024-057	Not Available
4139-024-058	Not Available
4139-025-091	525 N Sepulveda Boulevard
4139-025-081	475 N Sepulveda Boulevard
4139-025-073	Not Available
4139-025-074	Not Available
4139-025-075	Not Available
4139-025-076	Not Available

Descriptions of the site location and its improvements have been prepared below. For the purposes of describing the subject site, the site was divided into the north and south portions in relations to East Mariposa Avenue. The location of the site and its relationship to the surrounding areas are shown on Figure 1, Site Location Map.



N

SITE LOCATION MAP
BRE El Segundo HoldCo, LLC
Proposed Retail & Residential Development
Sepulveda Blvd. and Mariposa Ave.
El Segundo, California

NOT TO SCALE

FIGURE 1

APN: 4139-024-057 & 4139-024-058

This portion of the project site is located at the northwest corner of Pacific Coast Highway (PCH) and East Mariposa Avenue. This portion is bordered by East Palm to the north, PCH to the east, East Mariposa Avenue to the south, and a residential development to the west. This portion is rectangular in shape and encompasses approximately 2.0 acres of land. Currently, this site consist of an asphalt-paved parking lot. The asphalt is in good condition with a trace of asphalt cracking. A retaining wall approximately 3 to 10 feet in height is located along the west property line.

Topography within this portion is relatively flat with elevations of approximately 116 to 127 feet above mean sea level (MSL), based on GoogleEarth. Drainage is generally directed toward the east toward PCH and south toward Mariposa Avenue. Vegetation at the site consists of grass and medium-sized trees within landscape areas of the restaurant.

APN: 4139-025-091, 4139-025-081, 4139-025-073, 4139-025-074, 4139-025-075, & 4139-025-076

This portion of the project site is located at the southwest corner of PCH and East Mariposa Avenue. This portion is bordered by East Mariposa to the north, PCH to the east, East Holly Avenue to the south, and Indiana Street to the west. This portion is rectangular in shape and encompasses approximately 4.7 acres of land. Currently, a commercial structure is located at the northeast corner of this site, two hotels are located at the northern and central portions, and the southern portion consist of an asphalt-paved parking lot in good condition.

The commercial structure at the north end of this parcel consists of a one- to two-story structure with an associated asphalt paved parking lot. This parcel is also developed with two hotels comprised of three 5- to 9-story buildings. The buildings contain a partial subterranean level where they are located along PCH. A couple of retaining walls approximately 10 feet high are located along the central portion of the site. Additionally, a couple of slopes that are up to 18 feet in height and gradients of 2:1 (H:V) are also located within the central portion of the site.

Topography within this portion grades down to the southwest. Elevations range from approximately 97 to 116 feet above mean sea level (MSL), based on GoogleEarth. Drainage is generally directed to the southwest towards Indiana Street and East Holly Avenue. Indiana Avenue is situated at a lower elevation than PCH. East Holly Avenue is situated at a lower elevation than East Mariposa Avenue. Vegetation is present within the southern parking lot and consist of grass and medium-sized trees.

1.3 PROPOSED DEVELOPMENT

We understand that the proposed site development will consist of structures up to five stories high with one subterranean level. The structures will provide retail, residential, and parking garages. Other associated improvements will include drive alleys, landscaping, and underground utilities.

No grading or structural plans were available in preparing of this report. However, we anticipate that some rough grading of the site will be required to achieve future surface configurations. We understand that the retaining walls and the associated grades along the west and east property lines may be modified. Proposed site development is anticipated to be comprised of steel and wood framing

and masonry block construction with concrete slabs on grade supported by conventional foundations. Future foundation loads are expected to range from relatively light to moderate.

2.0 INVESTIGATION

2.1 RESEARCH

We have reviewed the referenced geologic publications, maps, and historical aerial photos of the vicinity. Data from these sources were utilized to the development of some of our findings and conclusions presented in this report.

Review of the referenced predevelopment aerial photos from 1953 indicate the southern portion of the site was predominantly undeveloped and several structures are present at the northwest and southwest corner of present day PCH and East Mariposa Avenue. A rectangular excavation is present across the site that spans from Indiana St. to PCH, and from the projection of E. Pine Ave. and for a distance of about 140 feet southerly of E. Pine. The excavation is estimated to be about 18 feet deep with the bottom near the elevation of Indiana St. Sometime in 1979, the southern excavation is occupied by a structure. Between 1953 and 1963, a storage yard is present at the southwest corner. The existing hotel and commercial area to the north are also constructed. Between 1963 and 1972, the structures at the northwest corner of PCH and East Mariposa Avenue are demolished and the existing parking lot and gas station is constructed. By 1980, the central hotel and southern parking lot have been constructed. Between 1994 and 2003, the restaurant the at the northwest portion of the site is constructed. The site does not appear to have been significantly altered since 2003.

Several sites within the vicinity of the subject site was previously investigated by this firm at 1222 East Mariposa Avenue, 888 North PCH and 1700 Grand Avenue (Albus-Keefe January 2013, Albus-Keefe July 2013, & Albus-Keefe June 2013, respectively). Subsurface investigation consisted of numerous soil borings to depths of 11 to 51 feet. Pertinent exploration and associated laboratory testing of soil samples from these prior investigations were utilized in our work and included in Appendix A.

3.0 SUBSURFACE CONDITIONS

3.1 SOIL CONDITIONS

Review of Geologic Map of California, Long Beach Sheet (CDMG 1962), indicates the site is underlain by quaternary Dune Sand deposits. Based on the referenced site explorations by our firm, the site is likely to be underlain by similar subsurface materials with a thin cap of artificial fill. The underlying soils are likely to be comprised of sand with varying amount of silt and clay materials that should be slightly moist to moist and loose to very dense. Density is anticipated to increase with depth. Artificial fill will most likely be present within the site due to the previous and recent developments.

3.2 GROUNDWATER

A review of the CDMG Seismic Hazard Zone Report 036 indicates that historical high groundwater levels for the general area have been interpreted at 160 feet below the ground surface in the vicinity of the site. Groundwater was not observed to the maximum depth of 51.0 feet below the existing surface in our exploratory borings in the vicinity of the site.

3.3 FAULTING

Evidence of active faulting within and adjacent the site was not readily observed during the site visit. The site does not lie within an "Earthquake Fault Zone" as defined by the State of California in the Alquist-Priolo Earthquake Fault Zoning Act. A summary of known active faults within 10 miles of the project are summarized in Table 3.1.

TABLE 3.1
Summary of Nearby Faults

Name	Distance (miles)	Slip Rate (mm/yr.)	Preferred Dip (degrees)	Slip Sense	Rupture Top (km)	Fault Length (km)
Newport-Inglewood, alt 1	3.64	1	88	strike slip	0	65
Newport Inglewood Connected alt 1	3.64	1.3	89	strike slip	0	208
Newport Inglewood Connected alt 2	4.37	1.3	90	strike slip	0	208
Palos Verdes Connected	4.73	3	90	strike slip	0	285
Palos Verdes	4.73	3	90	strike slip	0	99
Puente Hills (LA)	8.24	0.7	27	thrust	2.1	22
Santa Monica Connected alt 2	8.39	2.4	44	strike slip	0.8	93
Santa Monica Connected alt 1	8.91	2.6	51	strike slip	0	79
Santa Monica, alt 1	8.91	1	75	strike slip	0	14

4.0 ANALYSES

4.1 SEISMICITY

We have performed probabilistic seismic analyses utilizing the U.S. Seismic Design Maps web application by OSHPD, conforming with ASCE7-10. From our analyses, we obtain a PGA of 0.598 in accordance with Figure 22-7 of ASCE 7-10. The site amplification factor, F_{PGA}, for Site Class D at this range of PGA is 1.0. Therefore, site modified peak ground acceleration, PGA_M = 1.0 x 0.598 =

0.60g. The mean event associated with a probability of exceedance equal to 2% over 50 years has a moment magnitude of 6.80 and the mean distance to the seismic source is 7.4 miles.

4.2 SETTLEMENT

Analyses were performed to evaluate potential for static settlement using subsurface information from one of our earlier projects less than 200 feet west of the project site (Job Number 2088.00; referenced report of January 16, 2013). Our analyses used sampler penetration resistance (blow count) from hollow stem boring logs to estimate the elastic modulus of soil strata. For this feasibility-level evaluation, no loads or foundation configurations are available. Therefore, assumptions were made about the likely loading and configurations. Results of our analyses are summarized in Table 3.2 below.

TABLE 3.2
Summary of Settlement Analyses

Condition	Load	Bearing Pressure (psf)	Total Settlement (in.)
Pad at PCH grade	650 kip Column	4500	1.0
Pad at 8 feet below PCH Grade	720 kip Column	5000	0.9
Pad at PCH grade	10 kip/ft Wall	5000	0.5
Pad at 8 feet below PCH Grade	10 kip/ft Wall	5000	0.3

4.3 LIQUEFACTION

Engineering research of soil liquefaction potential (Youd, et al., 2001) indicates that generally three basic factors must exist concurrently in order for liquefaction to occur. These factors include:

- A source of ground shaking, such as an earthquake, capable of generating soil mass distortions.
- A relatively loose silty and/or sandy soil.
- A relative shallow groundwater table (within approximately 50 feet below ground surface) or completely saturated soil conditions that will allow positive pore pressure generation.

The liquefaction susceptibility of the onsite soils was evaluated by analyzing the potential concurrent occurrence of the above-mentioned three basic factors. The liquefaction evaluation for the site was completed under the guidance of Special Publication 117A: Guidelines for Evaluating and Mitigating Seismic Hazards in California (CDMG, 2008).

Historical high groundwater is anticipated at a depth of at least 50 feet below the site. Therefore, the potential for liquefaction to occur beneath the site is considered to be very low. Furthermore, the site is not located within a mapped California Geologic Survey liquefaction hazard zone.

5.0 CONCLUSIONS

5.1 FEASIBILITY OF PROPOSED DEVELOPMENT

From a geotechnical point of view, the proposed site development is considered feasible provided appropriate geotechnical recommendations are incorporated into the design and construction of the project. Key issues that could have significant fiscal impacts on the geotechnical aspects of the proposed site development are discussed in the following sections of this report.

5.2 GEOLOGIC HAZARD

5.2.1 Ground Rupture

No active faults are known to project through the site nor does the site lie within the bounds of an "Earthquake Fault Zone" as defined by the State of California in the Alquist-Priolo Earthquake Fault Zoning Act. As such, the potential for ground rupture due to fault displacement beneath the site is considered very low.

5.2.2 Ground Shaking

The site is situated in a seismically active area that has historically been affected by generally moderate to occasionally high levels of ground motion. The site lies in relative close proximity to several seismically active faults; therefore, during the life of the proposed structures, the property will probably experience similar moderate to occasionally high ground shaking from these fault zones, as well as some background shaking from other seismically active areas of the Southern California region. Potential ground accelerations have been estimated for the site and are presented in Section 4.1 of this report. Design and construction in accordance with the current California Building Code (C.B.C.) requirements is anticipated to adequately address potential ground shaking.

5.2.3 Liquefaction

The depth to historic high groundwater reported by the CGS in the site vicinity is greater than 50 feet below the ground surface (Seismic Hazard Zone Report 036). As such the potential for liquefaction at the site is considered very low. Furthermore, the site is not located within a mapped California Geologic Survey liquefaction hazard zone.

5.2.4 Landsliding

The site is not located within an area identified by the California Geologic Survey (CGS) as having potential for seismic slope instability. Geologic hazards associated with landsliding are not anticipated at the site.

5.3 STATIC SETTLEMENT

Previous data suggests that some soils at the site may exhibit collapsible potential upon wetting. If such materials are left unmitigated, this condition could result in excessive settlement of structures and site improvements due to the weight of new foundations and the introduction of water from rain

or irrigation. Excessive settlement from such materials can be mitigated if they are removed and recompacted. Materials anticipated to exhibit this condition consist of the artificial fill soils and upper 2 to 3 feet of the Dune Deposits.

Soils below the collapsible soil zone are anticipated to exhibit low compressibility characteristics in their current state. We have performed analyses to estimate the potential settlement of foundation supported by these materials as further discussed in Section 4.2. From our analyses, we conclude that total settlement of foundations will be less than about 1 inch provided column and wall loads do not exceed about 700 kips and 10 kips/ft., respectively, and bearing pressure is limited to about 4,500 to 5,000 psf. Associated differential settlement should be less than ½ inch over 30 feet. Such settlement is anticipated to be tolerable for proposed site development.

5.4 EXCAVATION AND MATERIAL CHARACTERISTICS

Existing artificial fill and the upper 2 to 3 feet of the Dune Sands are anticipated to be unsuitable to support proposed site development in their current condition. This condition can be mitigated by removing and recompacting these materials. We anticipate these materials will generally extend to depths of about 3 to 6 feet. Once these materials are removed, they are anticipated to be suitable for reuse as compacted fill.

Within materials located within the upper 10 feet from the grade at PCH, temporary construction slopes and trench excavations can likely be cut vertically up to a height of 4 feet within the onsite materials provided that no surcharging of the excavations is present. Temporary excavations greater than 4 feet in height will likely require side laybacks to 1:1 (H:V) or flatter to mitigate the potential for sloughing. Portions of the site below a depth of 10 feet from PCH grade may encounter friable sands that will tend to slough or run. Cuts in these materials will likely require a layback of 1.5:1 (H:V) at any height.

Demolition of the existing site improvements will generate a considerable amount of concrete and asphaltic concrete debris. Significant portions of concrete and asphaltic concrete debris can likely be reduced in size to less than 4 inches and incorporated within fill soils during earthwork operations.

Onsite disposal systems, clarifiers, and other underground improvements may be present on site. If encountered during future rough grading, these improvements will require proper abandonment or removal.

Off-site improvements, streets, and right-of-ways exist near and along the property lines. The presence of the existing offsite improvements will limit removals of unsuitable materials adjacent the property lines. Special grading techniques, such as slot cutting, will be required adjacent to the property lines were offsite structures are nearby. Construction of perimeter site walls will likely require deepened footings or caissons and grade beams where removals are restricted by property boundaries. Shoring may be required for excavation for the subterranean level.

Subsurface soils are anticipated to be relatively easy to excavate with conventional heavy earthmoving equipment. Removal and recompaction of the site materials will result in some moderate shrinkage

and subsidence. Design of site grading will require consideration of this loss when evaluating earthwork balance issues.

The existing near surface soils are typically below optimum moisture content. As such, moisturizing of site materials will likely be required prior to placement as compacted fill

5.5 SHRINKAGE AND SUBSIDENCE

Volumetric changes in earth quantities will occur when excavated onsite soil materials are replaced as properly compacted fill. We estimate the existing artificial fills and upper collapsible Dune Sand deposits will shrink approximately 10 to 20 percent. Reprocessing of removal bottoms are anticipated to result in negligible subsidence. The estimates of shrinkage and subsidence are intended as an aid for project engineers in determining earthwork quantities. However, these estimates should be used with some caution since they are not absolute values. Contingencies should be made for balancing earthwork quantities based on actual shrinkage and subsidence that occurs during the grading process.

5.6 SOIL EXPANSION

Based on our previous laboratory test results within the adjacent sites, the near-surface soils are generally anticipated to possess a **Very Low** to **Low** expansion potential. Testing for soil expansion will be required subsequent to rough grading and prior to construction of foundations and other concrete work to confirm these conditions. Expansive soils can undergo volume changes when they become wetted or dried. These changes can affect the overlying structures and other surface improvements. Given the expansion potential anticipated at the site, only nominal steps will be needed to mitigate adverse effects such as minor steel reinforcing of foundations and slabs, and moisture preparation and jointing details for flatwork.

5.7 SEISMIC DESIGN PARAMETERS

For design of the project in accordance with Chapter 16 of the 2016 California Building Code (CBC), the following table presents the seismic design factors:

5.8 FOUNDATIONS

The following design parameters are provided as feasibility-level parameters. These design parameters are based on typical site materials encountered during subsurface exploration at nearby sites and are provided for preliminary design and estimating purposes. Theses parameters should be verified by site-specific geotechnical investigation. Furthermore, the project geotechnical consultant should provide final design parameters following observation and testing of site materials during grading. Depending on actual materials encountered during site grading and actual foundation loads, the design parameters presented herein may require modification.

TABLE 5.1
2016 CBC Seismic Design Parameters

Parameter	Value
Site Class	D
Mapped MCE Spectral Response Acceleration, short periods, S_S	1.632
Mapped MCE Spectral Response Acceleration, at 1-sec. period, S_1	0.603
Site Coefficient, Fa	1.0
Site Coefficient, Fv	1.5
Adjusted MCE Spectral Response Acceleration, short periods, S_{MS}	1.632
Adjusted MCE Spectral Response Acceleration, at 1-sec. period, S_{M1}	0.904
Design Spectral Response Acceleration, short periods, S_{DS}	1.088
Design Spectral Response Acceleration, at 1-sec. period, S_{D1}	0.603

MCE = Maximum Considered Earthquake

5.8.1 Allowable Bearing Value

A bearing value of 1,800 pounds per square foot (psf) may be used for continuous footings and pad footings supported by compacted fill or competent Dune Sand deposits and having a minimum width of 12 inches and founded at minimum of 12 inches below the lowest adjacent grade. This value may be increased by 400 psf and 900 psf for each additional foot in width and depth, respectively, up to a maximum value of 5,000 psf. Recommended allowable bearing values include both dead and live loads, and may be increased by one-third for wind and seismic forces.

5.8.2 Lateral Resistance

A passive earth pressure of 200 pounds per square foot per foot of depth (pcf) up to a maximum value of 1000 pounds per square foot (psf) may be used to determine lateral bearing for footings. A coefficient of friction of 0.37 times the dead load forces may also be used between concrete and the supporting soils to determine lateral sliding resistance. The passive pressure may be increased by 1/3 for wind and seismic loading. However, no increase should be applied to the friction factor. The passive pressure should be reduced by 50% for footings facing ascending slope.

The above values are based on footings placed directly against compacted fill or competent native soil. In the case where footing edges are formed, all backfill against the footings should be compacted to at least 90 percent of the laboratory standard.

5.8.3 Footings and Slabs on Grade

Exterior and interior building footings may be founded at the minimum depths indicated in the California Building Code. All continuous footings should be reinforced with a minimum of two No. 4 bars, one top and one bottom. The structural engineer may require different reinforcement and should dictate if greater than the recommendations provided herein.

Interior isolated pad footings should be a minimum of 24 inches square and founded at minimum depths of 12 inches below the lowest adjacent final grade. Exterior isolated pad footings intended for

support of patio covers and similar construction should be a minimum of 24 inches square and founded at a minimum depth of 12 inches below the lowest adjacent final grade.

Interior concrete slabs constructed on grade should be a minimum 4 inches thick. If such slabs will be used for garage parking, they should have a minimum thickness of 5 inches. Slabs should be reinforced with 6-inch by 6-inch, W2.9 X W2.9 (No. 6 by No. 6) reinforcing wire mesh or No. 3 bars spaced 30 inches each way. Care should be taken to ensure the placement of reinforcement at mid-slab height. The structural engineer may recommend a greater slab thickness and reinforcement based on proposed use and loading conditions and such recommendations should govern if greater than the recommendations presented herein.

Concrete floor slabs in areas to receive carpet, tile, or other moisture sensitive coverings should be underlain with a moisture vapor retarder 10-mil Visqueen, or equal. The membrane should be properly lapped, sealed, and protected with at least 2 inches of sand having a sand equivalent (SE) of 30 or greater. One inch of this sand can be placed above the membrane. This vapor retarder system is anticipated to be suitable for most flooring finishes that can accommodate some vapor emissions. However, this system may emit more than 4 pounds of water per 1000 sq. ft. and therefore, may not be suitable for all flooring finishes. Additional steps should be taken if such vapor emission levels are too high for anticipated flooring finishes.

Special consideration should be given to slabs in areas to receive ceramic tile or other rigid, crack-sensitive floor coverings. Design and construction of such areas should mitigate hairline cracking as recommended by the structural engineer.

Block-outs should be provided around interior columns to permit relative movement and mitigate distress to the floor slabs due to differential settlement that will occur between column footings and adjacent floor subgrade soils as loads are applied.

Prior to placing concrete, subgrade soils below slab-on-grade areas should be thoroughly moistened to provide a moisture content that is equal to or greater than 100% of the optimum moisture content to a depth of 12 inches.

5.9 RETAINING WALLS

5.9.1 Allowable Bearing Value and Lateral Resistance

Design of retaining and screen walls may utilize the bearing and lateral resistance values provided in Section 5.8.1 and 5.8.2.

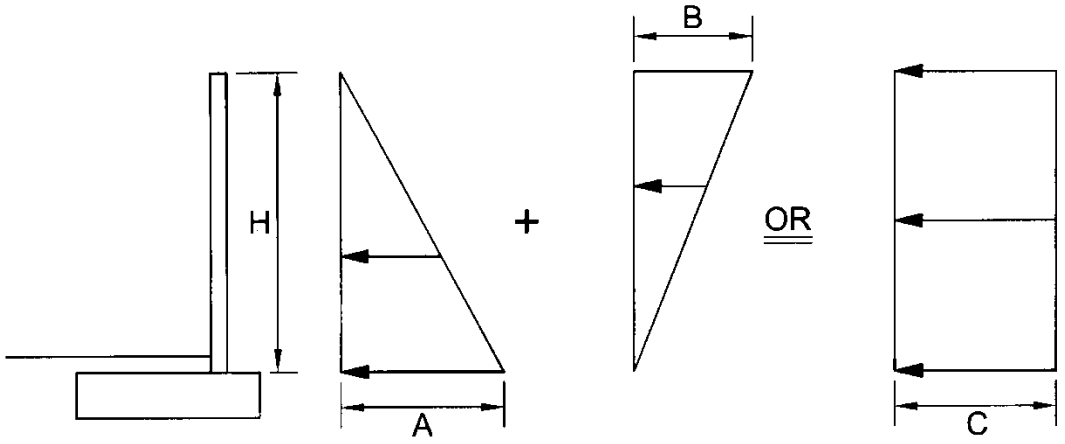
5.9.2 Earth Pressures

Conventional retaining walls should be designed for the static earth pressures as indicated in Table 5.2 below. These values are active (unrestrained) and at-rest (restrained) conditions based on backfill material parameters from projects in the vicinity of this project site. All values are for drained backfill conditions and do not consider hydrostatic pressures. All walls should be designed to support any adjacent structural surcharge loads imposed by other nearby walls, footings or traffic loads, and hydraulic pressures in addition to the earth pressures provided below.

In Table 5.2, H is the vertical height of the retained portion of the wall in feet and the resulting pressure is in pounds per square foot (psf). 2016 CBC requires inclusion of seismic pressure for retaining heights greater than 6 feet. Seismic earth pressures provided herein use a peak ground acceleration (PGA) of 0.39g, corresponding to probability of exceedance of 10 percent in 50 years. Seismic earth pressures are based on the method provided by Seed and Whitman (1970) for active condition, and Wood (1973) for at-rest condition.

As indicated in the diagram below, in Table 5.2, static earth pressure has an upright triangular distribution, with its value at base shown by "A". Seismic earth pressure has an inverted triangular distribution whose base value is represented by "B". Value "C" represents a combination of these two values, in the form of a uniform pressure distribution.

TABLE 5.2
EARTH PRESSURE DIAGRAMS



Pressure Values
Walls Supporting Engineered Backfill

Value	Un-restrained (Active) Condition		Restrained (At-rest) Condition
	Active Level Backfill	Active 2:1 Backfill	At-rest Level Backfill
A	39H	68H	65H
B	13H	13H	22H
C	26H	41H	44H

Note:
H is in feet and resulting pressure is in psf. Design may utilize either the sum of the static component and the seismic component force diagrams or the total force diagram above. SEAOSC has suggested using a load factor of 1.7 for the static component and 1.0 for the seismic component. The actual load factors should be determined by the structural engineer.

5.10 CONCRETE MIX DESIGN

Laboratory testing of soils from nearby sites indicates **Negligible** soluble sulfate content. Concrete designed to follow the procedures provided in ACI 318, Section 4.3, Table 4.3.1 for negligible sulfate exposure are anticipated to be adequate for mitigation of sulfate attack on concrete. Upon completion of rough grading, an evaluation of as-graded conditions and further laboratory testing will be required for the site to confirm or modify the conclusions provided in this section.

5.11 PAVEMENT SECTIONS

Based on the anticipated soil conditions present at the site and a range of assumed traffic indices, preliminary pavement sections are provided in the table below. A preliminary "R-value" of 25 was used for the near-surface soil in this preliminary pavement design. The sections provided below are feasibility-level section and should be re-evaluated subsequent to site investigation, detailed estimates of traffic index, and should be finalized upon site grading. Final pavement sections should be based on actual R-value testing of in-place soils and analysis of anticipated traffic.

TABLE 5.3
PRELIMINARY PAVEMENT DESIGN

Location	Traffic Index	AC (inches)	Concrete Paver	PCC (inches)	AB (inches)
All Entries And Interior Driveways	5.0	3.0 4.0	--	--	7.0 4.0
		--	8 cm		8.0
		--	--	6.0	--
	5.5	3.0 4.0	--	--	9.0 6.0
		--	8 cm		10.0
		--	--	6.5	--
	6.0	4.0 5.0			8.0 6.0
		--	8 cm		11.0
		--	--	7.0	--
Parking Stalls	--	3.0	--	--	4.0

AC - Asphaltic Concrete, AB - Aggregate Base, PCC – Portland Cement Concrete

Portland Cement Concrete (PCC) paving should be provided with cold joints or score lines spaced no more than 10 feet in each direction. Cold joints should be provided with dowels consisting of No. 4 bars spaced at 18 inches center to center. Edges of concrete paving for which traffic loads will traverse directly across should be thickened by at least 1.5 inches over a taper distance of 5 feet.

5.12 EXTERIOR FLATWORK

Exterior flatwork should be a minimum 4 inches thick. Cold joints or saw cuts should be provided at least every 7 feet in each direction. Cold joints should be keyed or provided with dowels spaced 18 inches on center. Special jointing detail should be provided in areas of block-outs, notches, or other irregularities to avoid cracking at points of high stress. Where flatwork is more than 7 feet wide in minimum dimension, the slab should be reinforced with No. 3 bars spaced 18 inches center to center each way.

Subgrade soils below flatwork should be thoroughly moistened to a moisture content to slightly above the optimum to a depth of 12 inches. Moistening should be accomplished by lightly spraying the area over a period of a few days just prior to pouring concrete.

Drainage from flatwork areas should be directed to local area drains and/or other appropriate collection devices designed to carry runoff water to the street or other approved drainage structures. The concrete flatwork should also be sloped at a minimum gradient of 0.5% away from building foundations and masonry walls.

The geotechnical consultant should observe and verify the density and moisture content of subgrade soils prior to pouring concrete to ensure that the required compaction and pre-moistening recommendations have been met.

5.13 UTILITY TRENCHES

Trench excavations should conform to the recommendations provided in Section 5.4. The project geologist or soil engineer should observe all trench excavations to provide specific recommendations. All trench excavations should conform to the requirements of CAL OSHA.

All utility trench backfill within the property should be compacted to at least 90 percent of the laboratory standard. Soils placed within the pipe zone (6 inches below and 12 inches above the pipe) should consist of particles no greater than ¾ inches and have an Sand Equivalent (SE) of at least 30. The materials within the pipe zone should be consolidated by compaction. Above the pipe zone (>1 foot above pipe), the backfill may consist of general fill materials. Trench backfill should be brought to uniform moisture, slightly over optimum, placed in lifts no greater than 12 inches in thickness, and then mechanically compacted with appropriate equipment to at least 90 percent of the laboratory standard. For trenches with sloped walls, backfill material should be placed in lifts no greater than 8 inches in loose thickness, and then compacted by rolling with a sheepsfoot tamper or similar equipment. The project geotechnical consultant should perform density testing along with probing to verify that adequate compaction has been achieved.

Within shallow trenches (less than 18 inches deep) where pipes may be damaged by heavy compaction equipment, imported clean sand having a SE of 30 or greater may be utilized. The sand should be placed in the trench then compacted with hand equipment if possible.

Where utility trenches are proposed parallel to any building footing (interior and/or exterior trenches), the bottom of the trench should not be located below a 1:1 (H:V) plane projecting downward from the

outside edge of the adjacent footing base. For utility trenches located below a 1:1 (H:V) plane projecting downward from the outside edge of the adjacent footing base or crossing footing trenches, concrete or slurry should be used as trench backfill.

5.14 STORMWATER INFILTRATION CHARACTERISTICS

Based on our review of previous data, we anticipate the site will be feasible for infiltration of storm water for WQMP purposes. Due to the limited space anticipated to be available for infiltration and the likelihood of subterranean structures, we recommend the use of dry wells for infiltration. For preliminary design purposes, the following parameters may be assumed for design of dry wells at the site. Specific design parameters will require onsite testing and analyses.

TABLE 5.4
Preliminary Dry Well Design Parameters

Design Factor	Value
Total Depth	30’
Chamber Depth	18’
Shaft Diameter	0’-20’: 6’OD, 20’-30’: 4’ OD
Assumed Invert Depth	7’
Peak Flow Rate	0.28 cfs
Draw Down Time	45 min.
Setbacks from Structures	10’ for on-grade, 20’ for 1 subterranean level

6.0 LIMITATIONS

This report is based on the proposed development and geotechnical data as described herein. The materials described herein and in other literature are believed representative of the total project area, and the conclusions contained in this report are presented on that basis. However, soil materials can vary in characteristics between points of exploration, both laterally and vertically, and those variations could affect the conclusions and recommendations contained herein. As such, observation and testing by a geotechnical consultant prior to and during the grading and construction phases of the project are essential to confirming the basis of this report.

This report summarizes several geotechnical topics that should be beneficial for project planning and budgetary evaluations. *The information presented herein is intended only for a preliminary feasibility evaluation and* ***is not*** *intended to satisfy the requirements of a site specific and detailed geotechnical investigation required for further planning and permitting.*

This report has been prepared consistent with that level of care being provided by other professionals providing similar services at the same locale and time period. The contents of this report are professional opinions and as such, are not to be considered a guaranty or warranty.

This report should be reviewed and updated after a period of one year or if the site ownership or project concept changes from that described herein.

This report has been prepared for the exclusive use of **BRE El Segundo HoldCo, LLC** to assist the project consultants in determining the feasibility of the proposed development. This report has not been prepared for use by parties or projects other than those named or described herein. This report may not contain sufficient information for other parties or other purposes.

Respectfully submitted,

ALBUS-KEEFE & ASSOCIATES, INC

Mark Principe
Staff Engineer

David E. Albus
Principal Engineer
GE 2455



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Albus-Keefe & Associates, Inc., *Geotechnical Investigation Report, Proposal Building Addition and Renovation Project, 1222 Grand Avenue, El Segundo, California*, dated July 17, 2013. J.N. 2189.00.

Albus-Keefe & Associates, Inc., *Geotechnical Geotechnical Feasibility Investigation, Proposed 5-Story Hotel Building, 888 North Sepulveda Boulevard, El Segundo, California*, dated June 18, 2013. J.N. 2173.00.

Albus-Keefe & Associates, Inc., *Geotechnical Grading Plan Review, Proposed Residential Townhome Development, 1700 and 1710 East Mariposa Avenue, City of El Segundo, California*, dated January 16, 2013. J.N. 2088.00.

APPENDIX A

LOGS AND LAB TEST RESULTS OF NEARBY PROJECTS

EXPLORATION LOG

Project: **Residential Development**			Boring No.: **Legend**
Location: **1700 & 1710 Mariposa Ave., El Segundo, CA**			Elevation:
Job No.: **2088.00**	Client: **The Olson Company**		Date:
Drill Method:	Driving Weight:		Logged By:

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		EXPLANATION.							
		Solid lines separate geologic units and/or material types.							
		Dashed lines indicate unknown depth geologic unit change or material type change.							
5		**Solid black rectangle** in Core column represents California Split-Spoon sampler (2.5in. ID, 3in. OD).			■				
		Double triangle in core column represents SPT sampler.			⧗				
10		**Open circle** in Core coumn represents sample not recovered.			○				
		Light gray rectangle in Bulk column represents large bag sample.				▒			
15		**Other Laboratory Tests:** MAX = Maximum Dry Density/Optimum Moisture Content SO4 = Soluble Sulfate Content EI = Expansion Index COR = Corrosion Series DSR = Direct Shear, Remolded DS = Direct Shear, Undisturbed SA = Sieve Analysis (1" through #200 sieve) PSA = Particle Size Analysis (SA with Hydrometer) -200 = Percent Passing #200 Sieve							
20		HYD = Hydrometer Only CON = Consolidation SE = Sand Equivalent RVAL = R-Value ATT = Atterberg Limits PER = Permeability.							

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Plate A-1

EXPLORATION LOG - V2 - AKA.GDT - 6/6/12 10:00 - T:\GINT\PROJECTS\2088.00.GPJ

EXPLORATION LOG

Project: **Residential Development**		Boring No.: **B-1**	
Location: **1700 & 1710 Mariposa Ave., El Segundo, CA**		Elevation:	
Job No.: **2088.00**	Client: **The Olson Company**	Date: **5/23/12**	
Drill Method: **Hollow-Stem Auger**	Driving Weight:**140 lbs / 30 in**	Logged By: **DDA**	

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		ARTIFICIAL FILL (Qaf)							
		Silty Sand (SM): Light brown to brown; dry to damp; loose; fine-grained sand; scattered roots, trace debris.		12	■		3.1	105.1	CON
		OLDER DUNE SAND (Qso)							
		Silty Sand (SM): Brown to reddish-brown; damp; medium dense; fine-grained sand; pinhole pores, weathered.		21	■		3.9	104.1	CON DS
5									
10		@ 10', becomes damp to moist, dense, fine- to medium-grained Silty Sand with less silt content (sandier).		25	■		5.3	110.9	
15				33	■		8.1	103.0	
20				40	■		6.6	104.0	
		Sand (SP): Light reddish-brown; moist; dense to very dense; fine- to medium-grained sand; poorly graded.							

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Plate A-2

EXPLORATION LOG - V2 - AKA.GDT - 6/6/12 10:12 - T:\GINT\PROJECTS\2088.00.GPJ

EXPLORATION LOG

Project: **Residential Development**		Boring No.: **B-1**	
Location: **1700 & 1710 Mariposa Ave., El Segundo, CA**		Elevation:	
Job No.: **2088.00**	Client: **The Olson Company**	Date: **5/23/12**	
Drill Method: **Hollow-Stem Auger**	Driving Weight:**140 lbs / 30 in**	Logged By: **DDA**	

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		Silty Sand to Sandy Silt (ML/SM): Brown to reddish-brown; moist; dense/very stiff; fine-grained sand.		51	■		8.0	110.8	
		Bottom of boring at 26.5' No groundwater Boring backfilled with soil cuttings.							
30									
35									
40									
45									

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Plate A-3

EXPLORATION LOG - V2 - AKA.GDT - 6/6/12 10:12 - T:\GINT\PROJECTS\2088.00.GPJ

EXPLORATION LOG

Project: **Residential Development**		Boring No.: **B-2**	
Location: **1700 & 1710 Mariposa Ave., El Segundo, CA**		Elevation:	
Job No.: **2088.00**	Client: **The Olson Company**	Date: **5/23/12**	
Drill Method: **Hollow-Stem Auger**	Driving Weight:**140 lbs / 30 in**	Logged By: **DDA**	

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		OLDER DUNE SAND (Qso)							
		Silty Sand (SM): Reddish-brown; damp to moist; dense; fine- to medium-grained sand.		44	■		3.1	115.3	SO4 PSA
				39	■		3.4	112.9	
5									
10		@ 10', becomes light reddish brown, moist Silty Sand with less silt content (sandier).		30	■		9.3	105.6	PSA
15				52	■		6.0	100.5	
20				40	■		4.3	98.2	

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Plate A-4

EXPLORATION LOG - V2 - AKA.GDT - 6/6/12 10:12 - T:\GINT\PROJECTS\2088.00.GPJ

EXPLORATION LOG

Project: **Residential Development**		Boring No.: **B-2**	
Location: **1700 & 1710 Mariposa Ave., El Segundo, CA**		Elevation:	
Job No.: **2088.00**	Client: **The Olson Company**	Date: **5/23/12**	
Drill Method: **Hollow-Stem Auger**	Driving Weight:**140 lbs / 30 in**	Logged By: **DDA**	

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
				79	■		4.3	106.2	
		Bottom of boring at 26.5' No groundwater Boring backfilled with soil cuttings.							
30									
35									
40									
45									

EXPLORATION LOG - V2 - AKA.GDT - 6/6/12 10:12 - T:\GINT\PROJECTS\2088.00.GPJ

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Plate A-5

LABORATORY TESTING PROGRAM

Soil Classification

Soils encountered within the exploratory borings were initially classified in the field in general accordance with the visual-manual procedures of the Unified Soil Classification System (ASTM D 2488-93). The samples were re-examined in the laboratory and classifications reviewed and then revised where appropriate. The assigned group symbols are presented in the Exploration Logs provided in Appendix A.

In-Situ Moisture Content and Dry Density

Moisture content and dry density of in-place soil materials were determined in representative strata. Test data are summarized in the Exploration Logs, Appendix A.

Grain Size/Hydrometer Analysis

Grain size and hydrometer analyses were performed on selected samples to verify visual classifications performed in the field. The tests were performed in accordance with ASTM D 422-63. Test results are graphically presented on Plates B-1 and B-2.

Direct Shear

The Coulomb shear strength parameters, angle of internal friction and cohesion, were determined for a soil sample obtained from one of our borings. The test was performed in general conformance with ASTM D 3080-04. Three specimens were prepared for the test and each specimen was sheared under varied loads at an appropriate constant rate of strain. Results are graphically presented on Plate B-3.

Consolidation

Consolidation tests were performed for selected soil samples in general conformance with ASTM D 2435-04. Axial loads were applied in several increments to a laterally restrained 1-inch-high sample. Loads were applied in geometric progression by doubling the previous load, and the resulting deformations were recorded at selected time intervals. The test samples were inundated at a selected load to evaluate the effect of a sudden increase in moisture content (hydro-consolidation potential). Results of the tests are graphically presented on Plates B-4 and B-5.

Soluble Sulfate Content

A chemical analysis was performed on a selected sample to determine soluble sulfate content. This test was performed in our soil laboratory in accordance with California Test Method No 417. The test result is included on Table B.

TABLE B
SUMMARY OF LABORATORY TEST RESULTS

Boring No.	Sample Depth (ft.)	Soil Description	Test Results	
B-2	2	Silty Sand (SM)	Percent Passing #200 Sieve: Soluble Sulfate Content: Sulfate Exposure:	24.5% 0.000% Negligible
B-2	10	Silty Sand (SM)	Percent Passing #200 Sieve:	13.5%

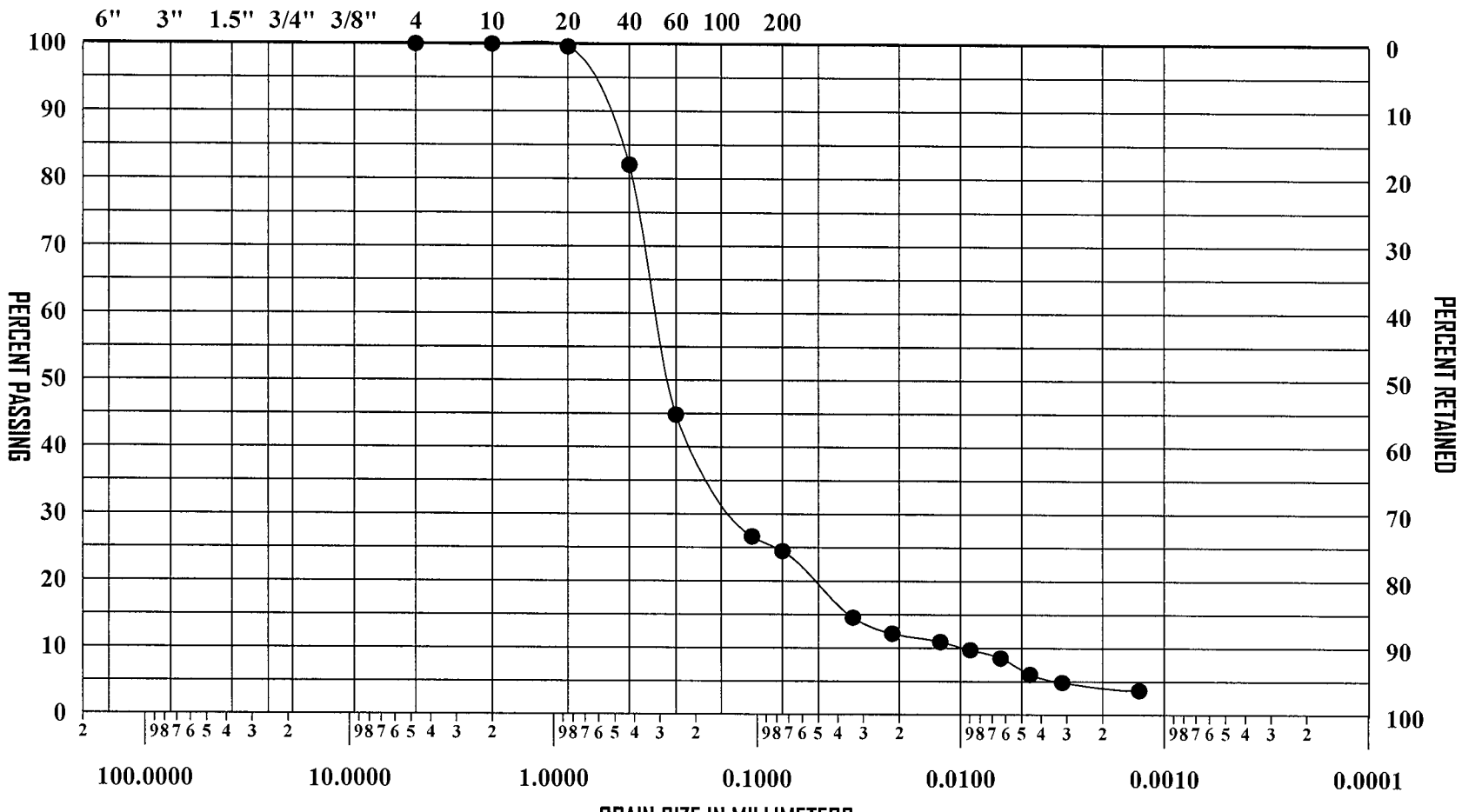
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GRAIN SIZE DISTRIBUTION

Job No: 2088.00
Plate No: B-1

UNIFIED SOIL CLASSIFICATION

COBBLES	GRAVEL		SAND			SILT AND CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



LOCATION	DEPTH	SYMBOL	LL	PI	CLASSIFICATION
B-2	2'	●			Silty Sand (SM)
		■			
		▲			
		◆			

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GRAIN SIZE DISTRIBUTION

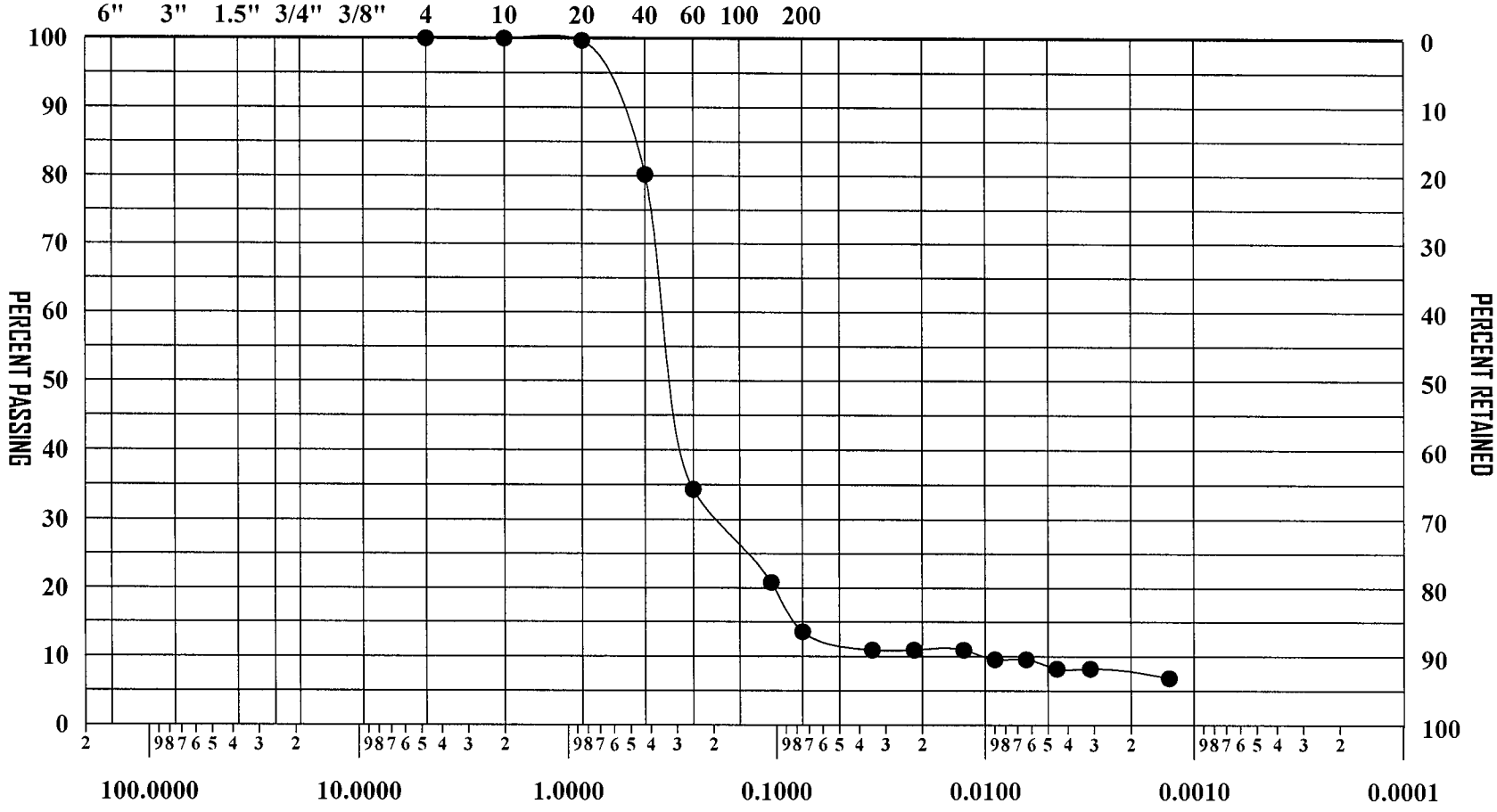
Job No: 2088.00

Plate No: B-2

UNIFIED SOIL CLASSIFICATION

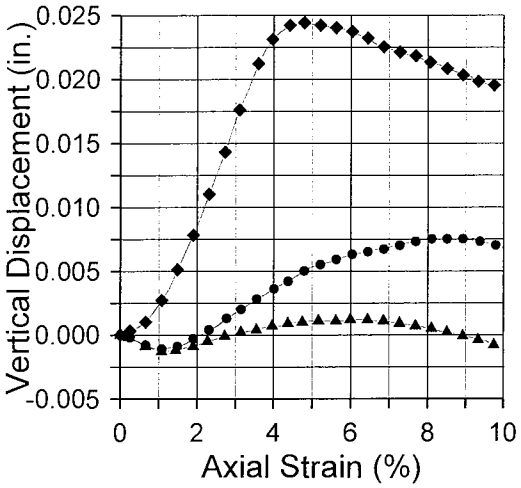
COBBLES	GRAVEL		SAND			SILT AND CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

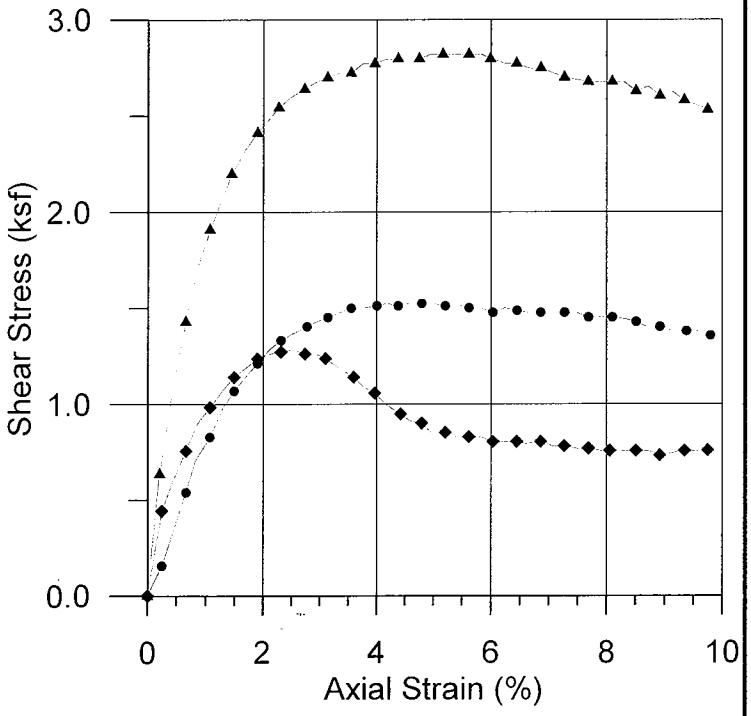
U.S. STANDARD SIEVE SIZES

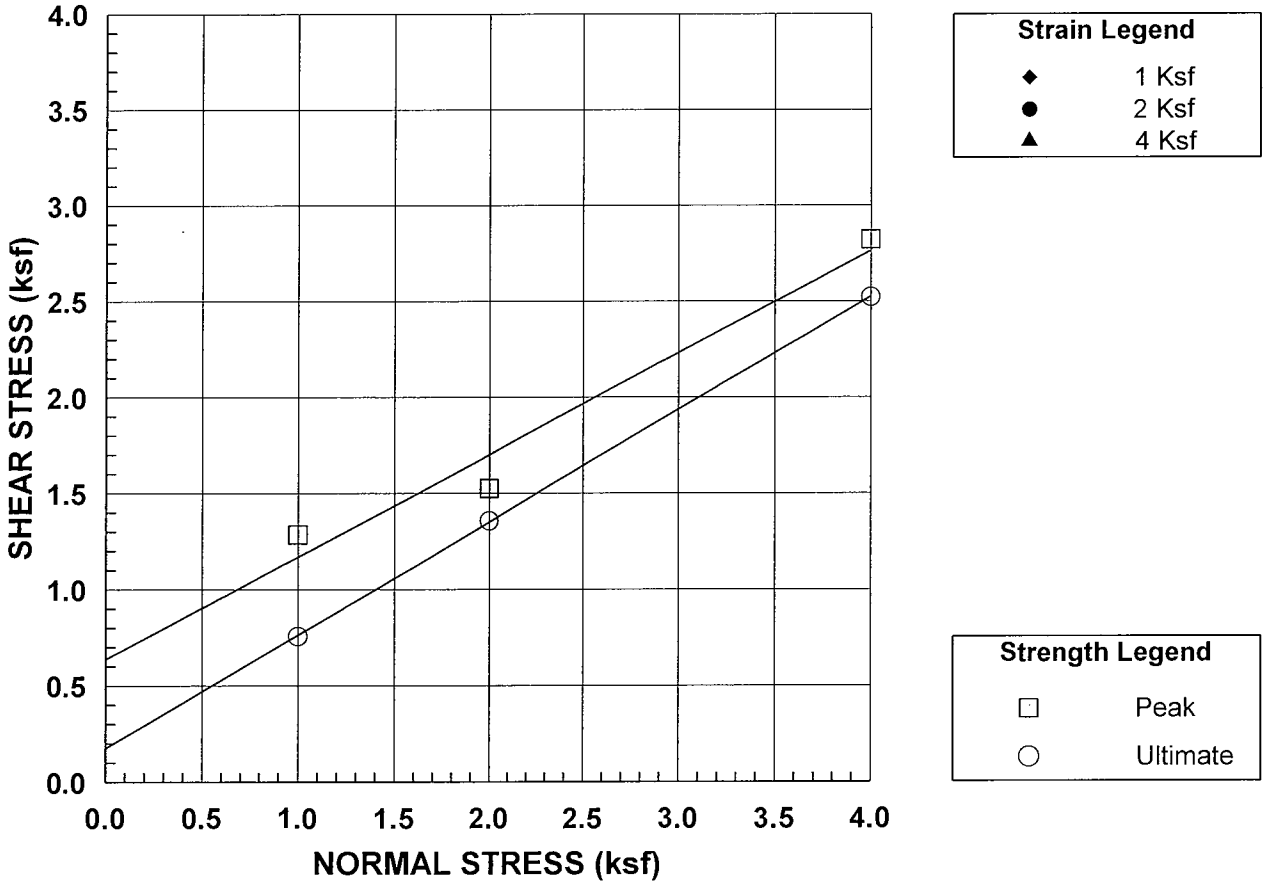


LOCATION	DEPTH	SYMBOL	LL	PI	CLASSIFICATION
B-2	10'	●			Silty Sand (SM)
		■			
		▲			
		◆			

Specimen No.	1	2	3
Normal Stress (ksf)	1	2	4
Peak Stress (ksf)	1.284	1.524	2.82
Peak Displacement (in)	0.061	0.1005	0.12
Ultimate Stress (ksf)	0.756	1.356	2.52
Ultimate Displacement (in)	0.246	0.246	0.246
Initial Dry Density	105.7	103.2	105.4
Initial Moisture Content (%)	3.91	3.91	3.91
Strain Rate (in/min)	0.040		







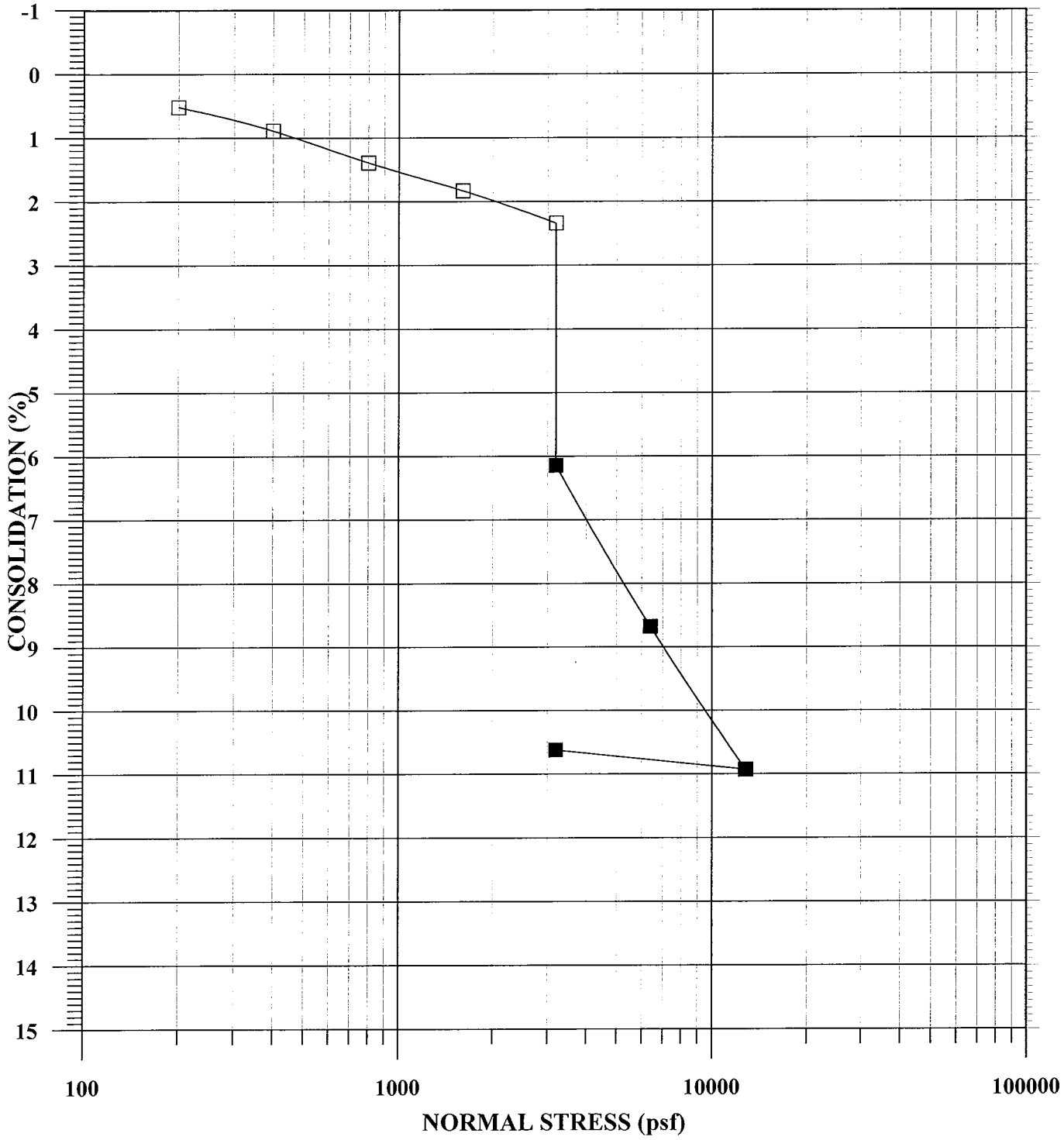
SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
B-1 @ 4'	Undisturbed - In-Situ	Silty Sand (SM)

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DIRECT SHEAR

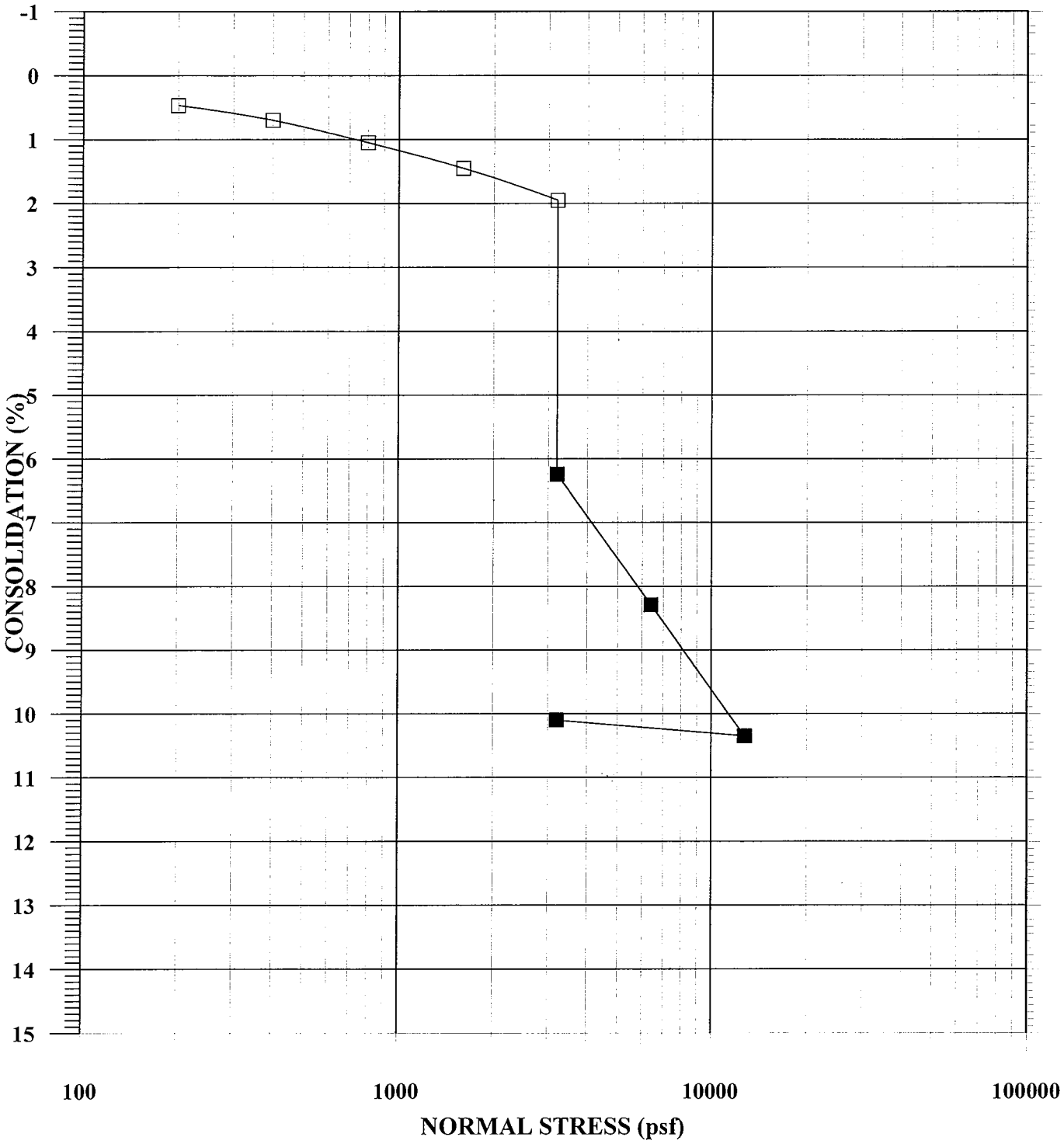
Job No: 2088.00

Plate No: B-3



Sample Location:	B-1	Initial Dry Density (pcf):	101.3	
Sample Depth:	2'	Initial Moisure Content (%):	4.7	Legend □ □ □ Field Moisture ■ ■ ■ Saturated
Classification:	SM	Final Moisture Content (%):	13.1	

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2088.00	Plate No: B-4



Sample Location:	B-1	Initial Dry Density (pcf):	104.7	
Sample Depth:	4'	Initial Moisure Content:	4.3	Legend
Classification: SM		Final Moisture Content:	13.8	□ □ □ Field Moisture ■ ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2088.00 Plate No. B-5

EXPLORATION LOG

Project: **Hotel Development**			Boring No.: **Legend**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**			Elevation:
Job No.: **2173.00**	Client: **Barnard Ventures**		Date:
Drill Method:	Driving Weight:		Logged By:

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		EXPLANATION							
		Solid lines separate geologic units and/or material types.							
		Dashed lines indicate unknown depth geologic unit change or material type change.							
5		**Solid black rectangle** in Core column represents California Split-Spoon sampler (2.5in. ID, 3in. OD).			■				
		Double triangle in core column represents SPT sampler.			⧗				
10		**Open circle** in Core coumn represents sample not recovered.			○				
		Light gray rectangle in Bulk column represents large bag sample.				▒			
15		**Other Laboratory Tests:** MAX = Maximum Dry Density/Optimum Moisture Content SO4 = Soluble Sulfate Content EI = Expansion Index COR = Corrosion Series DSR = Direct Shear, Remolded DS = Direct Shear, Undisturbed SA = Sieve Analysis (1" through #200 sieve) PSA = Particle Size Analysis (SA with Hydrometer) -200 = Percent Passing #200 Sieve							
20		HYD = Hydrometer Only CON = Consolidation SE = Sand Equivalent RVAL = R-Value ATT = Atterberg Limits PER = Permeability.							

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Plate A-1

EXPLORATION LOG - V2 - AKA.GDT - 6/13/13 10:51 - T:\GINT\PROJECTS\2173.00.GPJ

EXPLORATION LOG

Project: **Hotel Development**		Boring No.:	**B-1**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**		Elevation:	**+-111'**
Job No.: **2173.00**	Client: **Barnard Ventures**	Date:	**5/23/13**
Drill Method: **Hollow-Stem Auger**	Driving Weight **140 lbs / 30 in**	Logged By:	**JC**

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		DUNE SAND (Qs)							MAX PSA
		Silty Sand (SM): Light reddish-brown; damp; medium dense; fine-grained sand.		16	■		4.2	108.1	
5		**LAKEWOOD FORMATION (Qlw)**		33	■		7.4	119.2	CON DS
		Silty Sand (SM): Reddish-brown; damp; dense; fine- to medium-grained sand; oxidation staining.		50	■		11.5	124.2	
		Clayey Sand (SC): Reddish-brown; moist; very dense; fine-grained sand.							
10				30	■		13.3	115.2	
15		Silty Sand (SM): Light reddish-brown; dry to damp; loose; fine-grained sand.		12	■		3.6	101.0	
20		@ 20', becomes medium dense.		19	■		3.8	98.7	

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Plate A-2

EXPLORATION LOG - V2 - AKA.GDT - 6/21/13 16:40 - T:\GINT\PROJECTS\2173.00.GPJ

EXPLORATION LOG

Project: **Hotel Development**		Boring No.:	**B-1**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**		Elevation:	**+-111'**
Job No.: **2173.00**	Client: **Barnard Ventures**	Date:	**5/23/13**
Drill Method: **Hollow-Stem Auger**	Driving Weight **140 lbs / 30 in**	Logged By:	**JC**

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		@ 25', becomes light reddish-brown to tan, very dense, less fines.		40					
		Sand (SP-SM): Light reddish-brown; damp; very dense; fine-grained sand.							
30				59			3.3	100.4	
35				67					
40				43			3.5	95.6	
		Sandy Silt (ML): Tan; dry to damp; hard; fine-grained sand.							
45				50/5"					

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Plate A-3

EXPLORATION LOG - V2 - AKA.GDT - 6/21/13 16:40 - T:\GINT\PROJECTS\2173.00.GPJ

EXPLORATION LOG

Project: **Hotel Development**		Boring No.:	**B-1**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**		Elevation:	**+-111'**
Job No.: **2173.00**	Client: **Barnard Ventures**	Date:	**5/23/13**
Drill Method: **Hollow-Stem Auger**	Driving Weight **140 lbs / 30 in**	Logged By:	**JC**

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
				60	■		5.6	98.5	
		Total Depth 51 feet No Ground Water Boring backfilled with soil cuttings.							
55									
60									
65									
70									

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Plate A-4

EXPLORATION LOG - V2 - AKA.GDT - 6/21/13 16:40 - T:\GINT\PROJECTS\2173.00.GPJ

EXPLORATION LOG

Project: **Hotel Development**		Boring No.:	**B-2**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**		Elevation:	**+-107'**
Job No.: **2173.00**	Client: **Barnard Ventures**	Date:	**5/23/13**
Drill Method: **Hollow-Stem Auger**	Driving Weight **140 lbs / 30 in**	Logged By:	**JC**

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		LAKEWOOD FORMATION (Qlw)							
		Silty Sand (SM): Dark brown; damp; medium dense; fine-grained sand; minor porosity.		13	■		7.0	110.7	
		Sandy Clay / Clayey sand (CL/SC): Dark brown; moist; stiff; fine-grained sand.				▨			EI SO4 PSA ATT CON
5				18	■	▨	15.5	112.9	
		Clayey Sand (SC): Brown to reddish-brown; moist; dense; fine-grained sand. @ 7', some caliche.		17	■	▨	16.9	111.6	
10				24	■		15.3	115.5	CON
		Silty Sand (SM): Reddish-brown; dry to damp; medium dense; fine-grained sand.		17	■		3.3	99.1	
15									
20		@ 20', becomes very dense.		26	⧗				
		Sand (SP): Light reddish-brown; dry to damp; dense to very dense; fine-grained sand.							

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Plate A-5

EXPLORATION LOG - V2 - AKA.GDT - 6/21/13 16:40 - T:\GINT\PROJECTS\2173.00.GPJ

EXPLORATION LOG

Project: **Hotel Development**		Boring No.:	**B-2**
Location: **888 N Sepulveda Blvd, El Segundo, Ca**		Elevation:	**+-107'**
Job No.: **2173.00**	Client: **Barnard Ventures**	Date:	**5/23/13**
Drill Method: **Hollow-Stem Auger**	Driving Weight **140 lbs / 30 in**	Logged By:	**JC**

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
				41	■		3.5	92.9	
30				59	▼ ▲				
35				41	■		2.8	101.7	
		Sandy Silt (ML): Light brown to tan; dry to damp; hard.							
40				76	▼ ▲				
		Total Depth 41.5 feet No Ground Water Boring backfilled with soil cuttings.							
45									

EXPLORATION LOG - V2 - AKA.GDT - 6/21/13 16:40 - T:\GINT\PROJECTS\2173.00.GPJ

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Plate A-6

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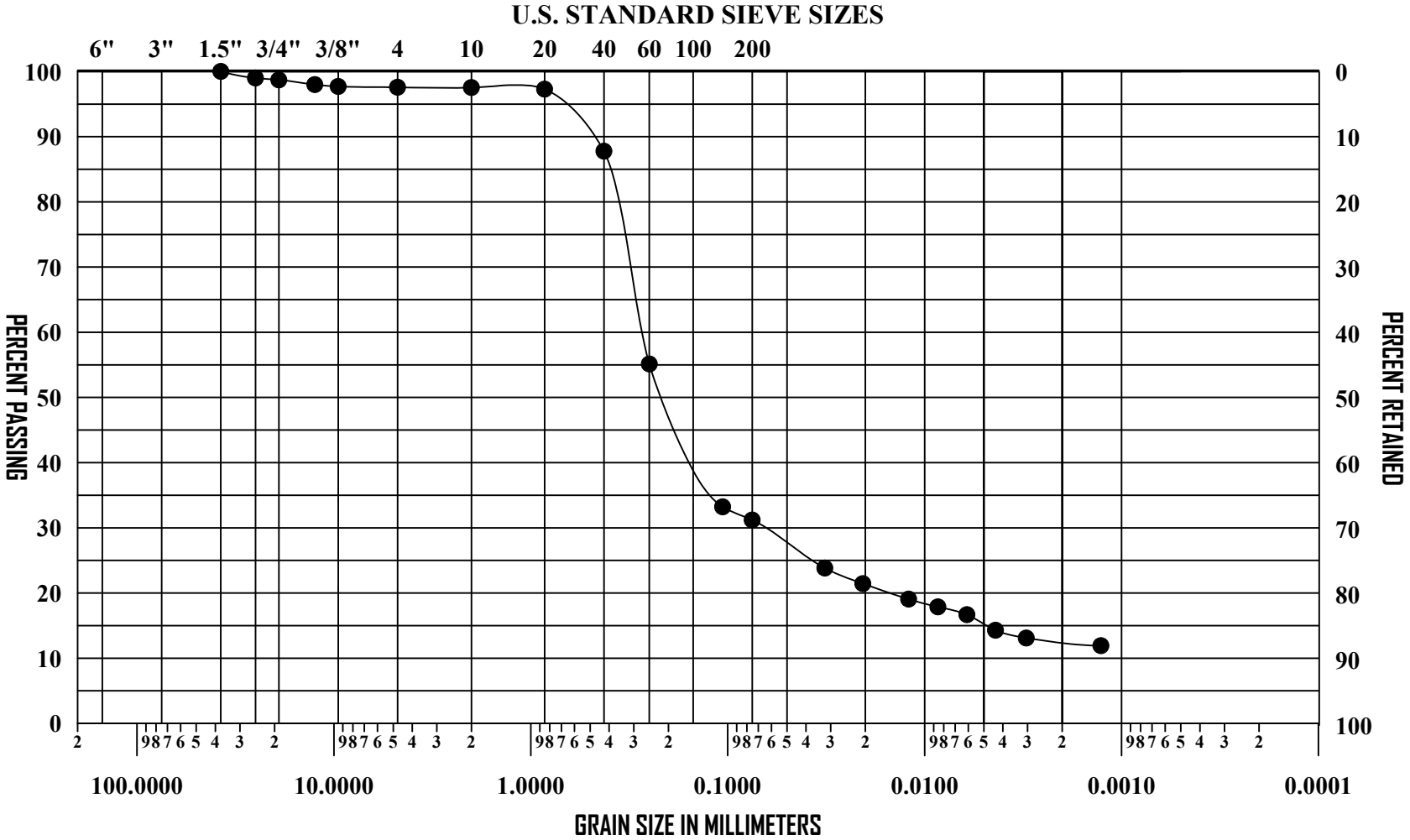
GRAIN SIZE DISTRIBUTION

Job No: 2173.00

Plate No: B-1

UNIFIED SOIL CLASSIFICATION

COBBLES	GRAVEL		SAND			SILT AND CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



LOCATION	DEPTH	SYMBOL	LL	PI	CLASSIFICATION
B-1	0-5'	●			Silty Sand (SM)
		■			
		▲			
		◆			

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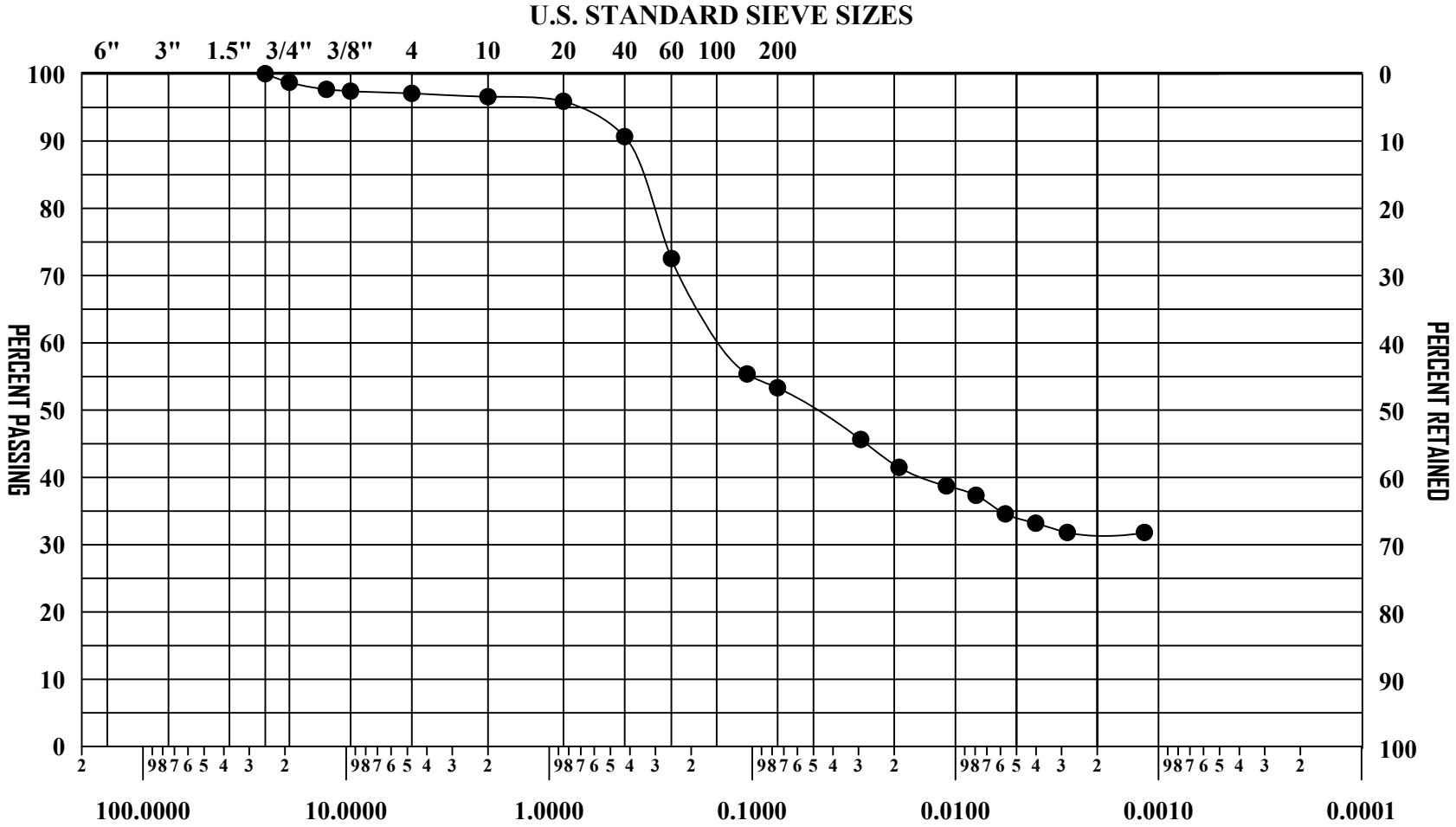
GRAIN SIZE DISTRIBUTION

Job No: 2173.00

Plate No: B-2

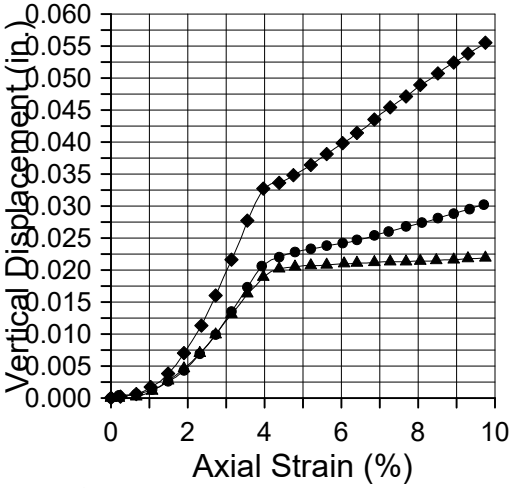
UNIFIED SOIL CLASSIFICATION

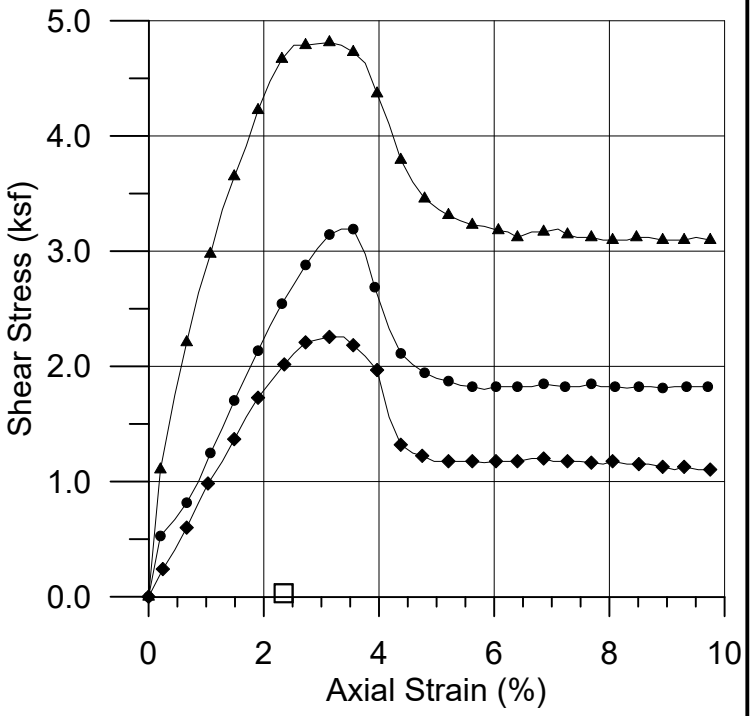
COBBLES	GRAVEL		SAND			SILT AND CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

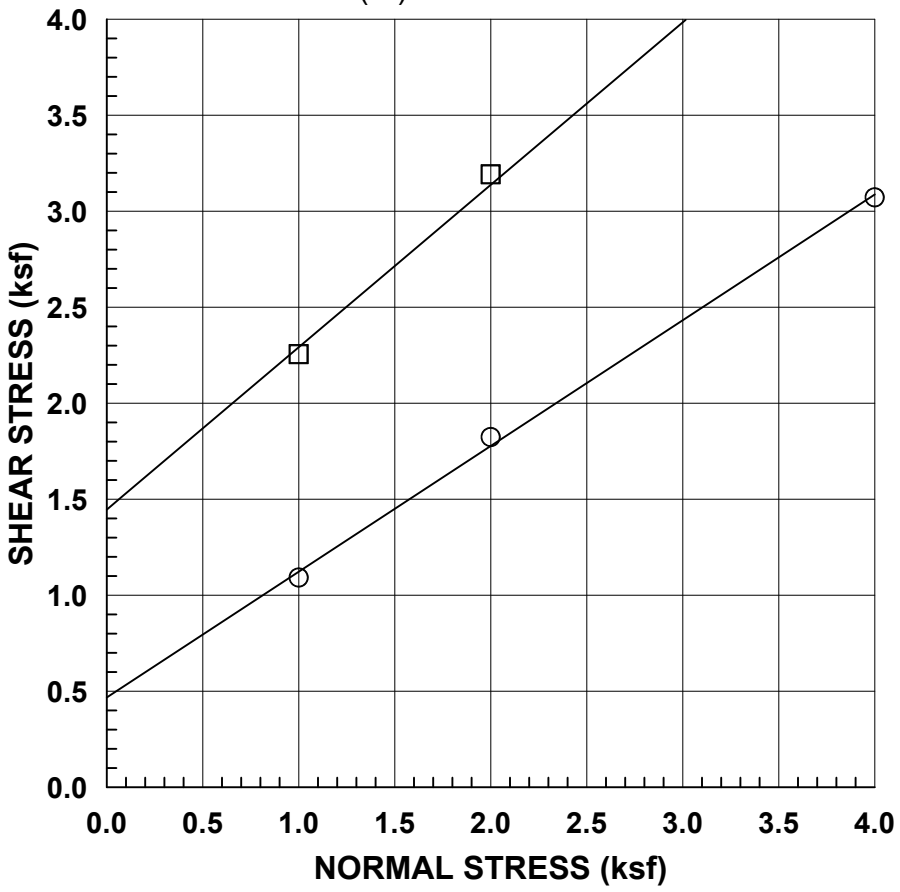


LOCATION	DEPTH	SYMBOL	LL	PI	CLASSIFICATION
B-2	3'-8'				Sandy Clay (CL)

Specimen No.	1	2	3
Normal Stress (ksf)	1	2	4
Peak Stress (ksf)	2.256	3.192	4.812
Peak Displacement (in)	0.076	0.081	0.0755
Ultimate Stress (ksf)	1.092	1.824	3.072
Ultimate Displacement (in)	0.246	0.245	0.246
Initial Dry Density	116.5	116.5	118.6
Initial Moisture Content (%)	7.419	7.419	7.419
Strain Rate (in/min)	0.040		







Strain Legend

- ◆ 1 Ksf
- ● 2 Ksf
- ▲ 4 Ksf

Strength Legend

- □ Peak
- ○ Ultimate

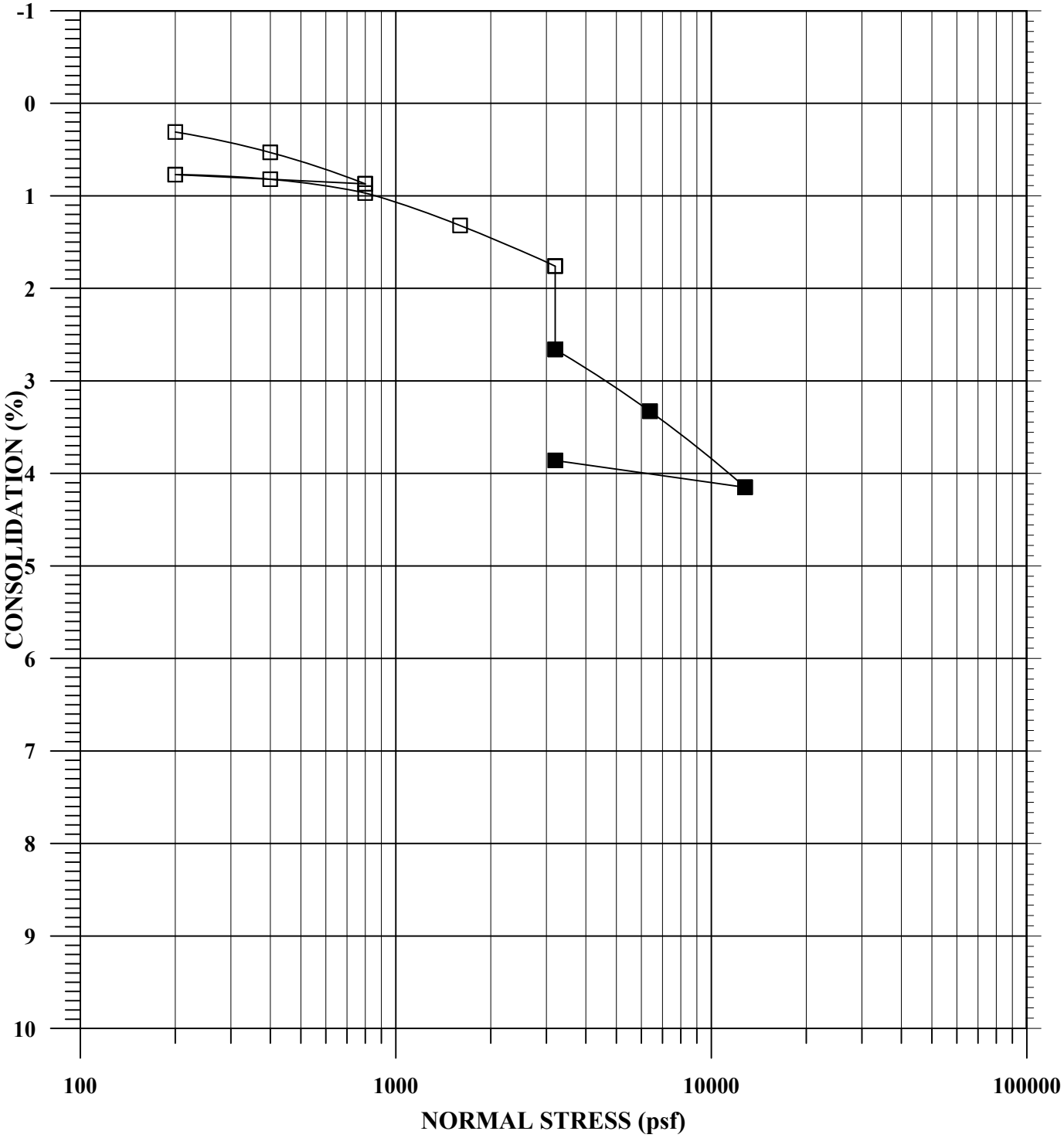
SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
B-1 @ 5'	Undisturbed - In-Situ	Silty Sand (SM)

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DIRECT SHEAR

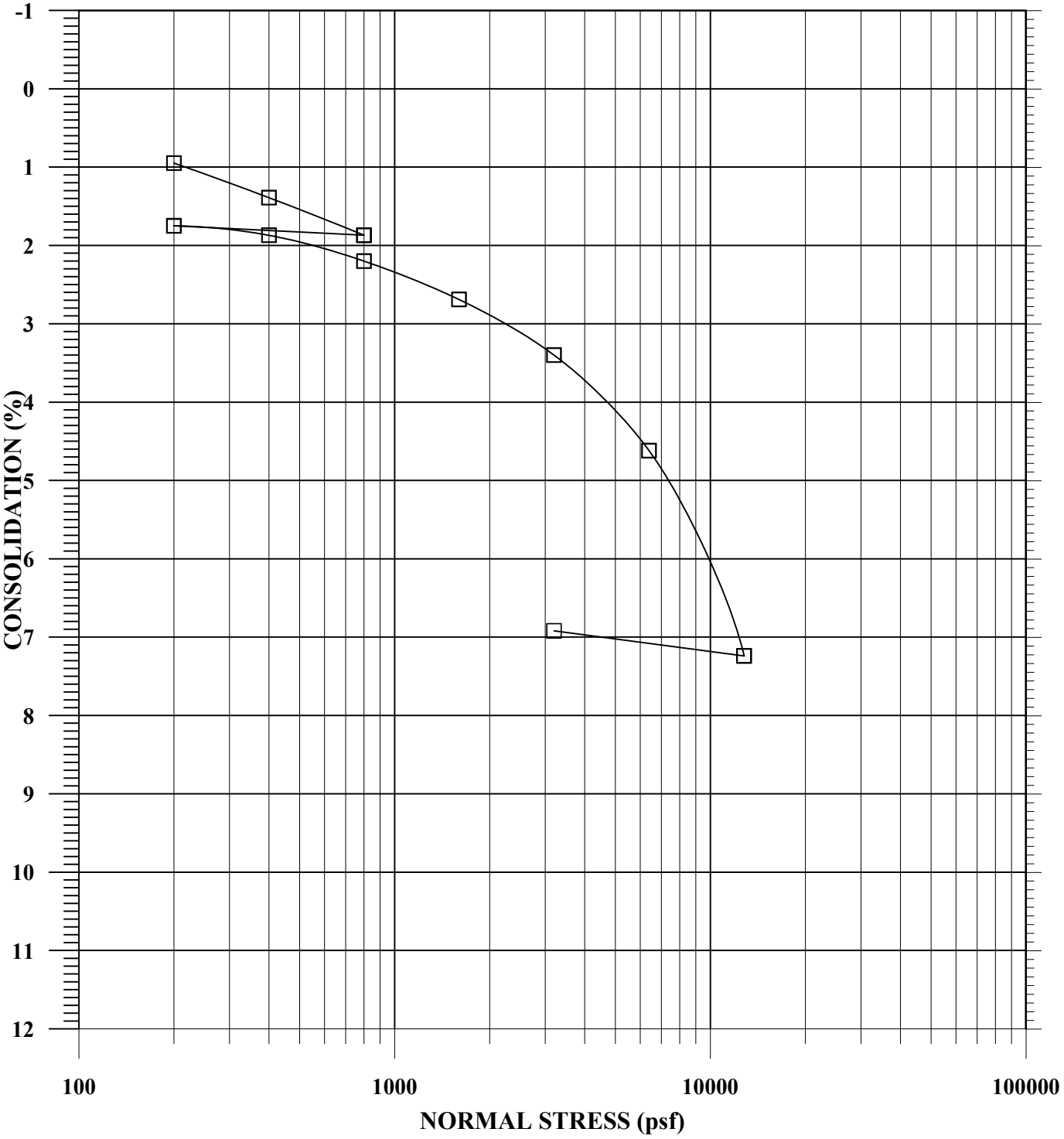
Job No: 2173.00

Plate No: B-3



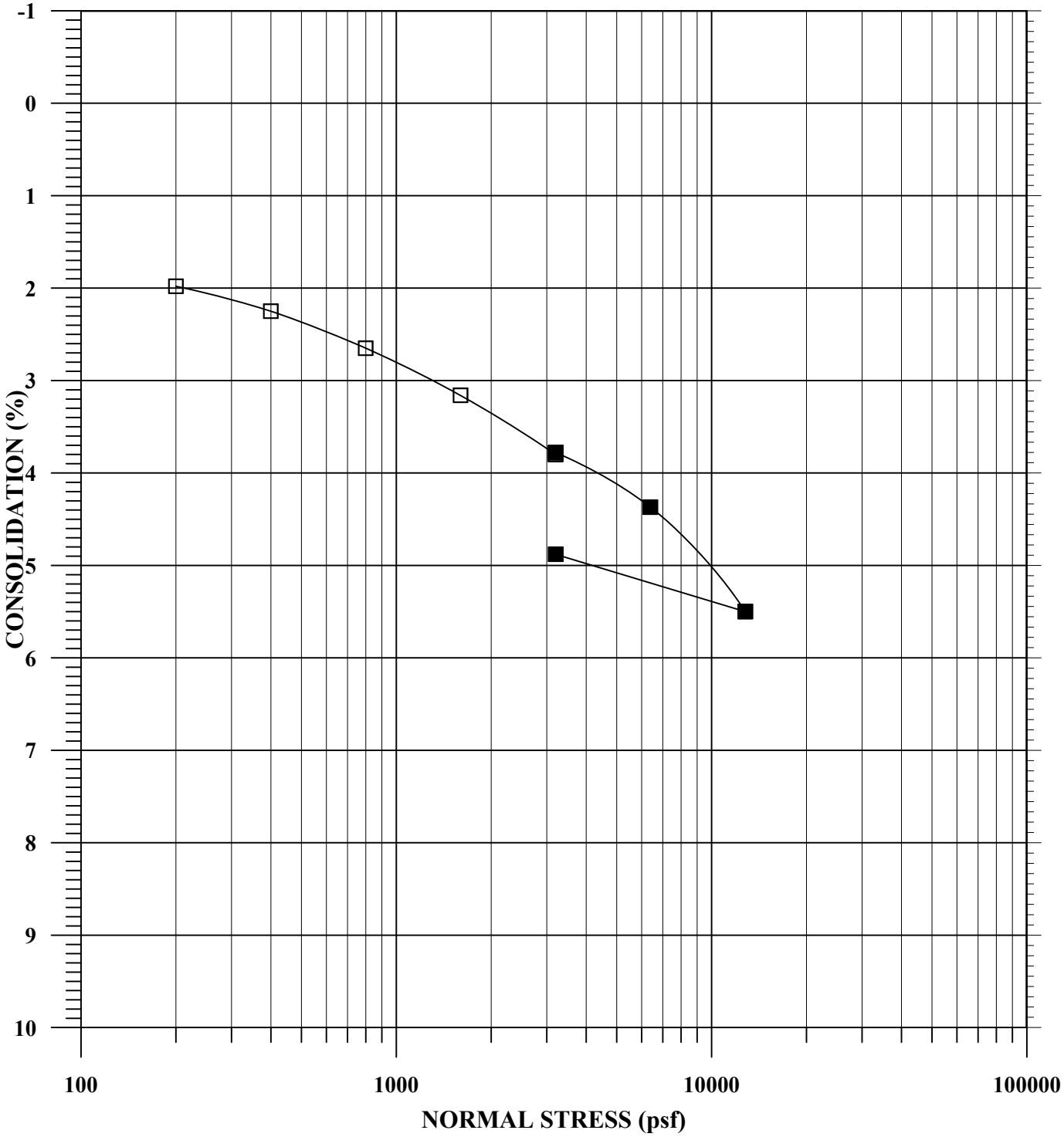
Sample Location:	B-1	Initial Dry Density (pcf):	116.8	
Sample Depth:	5'	Initial Moisure Content (%):	7.8	Legend
Classification:	SM	Final Moisture Content (%):	10.3	□ □ □ Field Moisture ■ ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2173.00 Plate No: B-4



Sample Location:	B-2	Initial Dry Density (pcf):	112.1	
Sample Depth:	5'	Initial Moisure Content:	16.1	Legend
Classification:	CL	Final Moisture Content:	13.6	□ □ □ Field Moisture ■ ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2173.00 Plate No. B-5



Sample Location:	B-2	Initial Dry Density (pcf):	113.5	
Sample Depth:	10'	Initial Moisure Content (%):	10.0	Legend
Classification:	SC	Final Moisture Content (%):	16.0	□ □ □ Field Moisture ■ ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2173.00 Plate No: B-6

EXPLORATION LOG

Project: **Proposed Building Addition and Renovation Project**			Boring No.: **Legend**
Location: **1222 Grand Ave, El Segundo, Ca**			Elevation:
Job No.: **2189.00**	Client: **Mars Venture, Inc.**		Date:
Drill Method:	Driving Weight:		Logged By:

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		EXPLANATION							
		Solid lines separate geologic units and/or material types.							
		Dashed lines indicate unknown depth geologic unit change or material type change.							
5		**Solid black rectangle** in Core column represents California Split-Spoon sampler (2.5in. ID, 3in. OD).			■				
		Double triangle in core column represents SPT sampler.			⧗				
10		**Open circle** in Core coumn represents sample not recovered.			○				
		Light gray rectangle in Bulk column represents large bag sample.				▒			
15		**Other Laboratory Tests:** MAX = Maximum Dry Density/Optimum Moisture Content SO4 = Soluble Sulfate Content EI = Expansion Index COR = Corrosion Series DSR = Direct Shear, Remolded DS = Direct Shear, Undisturbed SA = Sieve Analysis (1" through #200 sieve) PSA = Particle Size Analysis (SA with Hydrometer) -200 = Percent Passing #200 Sieve							
20		HYD = Hydrometer Only CON = Consolidation SE = Sand Equivalent RVAL = R-Value ATT = Atterberg Limits PER = Permeability.							

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1011 N. Armando St.
Anaheim, CA 92806-2606
(714) 630-1626 fx(714) 630-1916

Plate A-1

EXPLORATION LOG - V2 - AKA.GDT - 7/2/13 15:42 - T:\GINT\PROJECTS\2189.00.GPJ

EXPLORATION LOG

Project: **Proposed Building Addition and Renovation Project**		Boring No.: **B-1**	
Location: **1222 Grand Ave, El Segundo, Ca**		Elevation:	
Job No.: **2189.00**	Client: **Mars Venture, Inc.**	Date: **6/17/13**	
Drill Method: **Hand Auger**	Driving Weight **Hand Driven**	Logged By: **DDA**	

Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		Concrete = 4".							MAX
		Silty Sand (SM): Brown; moist; medium dense; fine- to medium-grained sand.							SO4
									DSR
		@ 2', some pinhole pores, dense.			■		5.8	98.0	RVAL
		@ 4', porous.			■		5.8	100.7	CON
5									
					■		7.2	113.7	CON
		@ 8', becomes lt reddish-brown, more sand.							
10		@ 10', becomes very dense.			■		7.0	106.7	
		Total Depth 11 feet No Ground water Boring back filled with soil cuttings.							

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Plate A-2

EXPLORATION LOG - V2 - AKA.GDT - 7/2/13 15:42 - T:\GINT\PROJECTS\2189.00.GPJ

EXPLORATION LOG

Project: **Proposed Building Addition and Renovation Project**		Boring No.: **B-2**	
Location: **1222 Grand Ave, El Segundo, Ca**		Elevation:	
Job No.: **2189.00**	Client: **Mars Venture, Inc.**	Date: **6/17/13**	
Drill Method: **Hand Auger**	Driving Weight **Hand Driven**	Logged By: **DDA**	

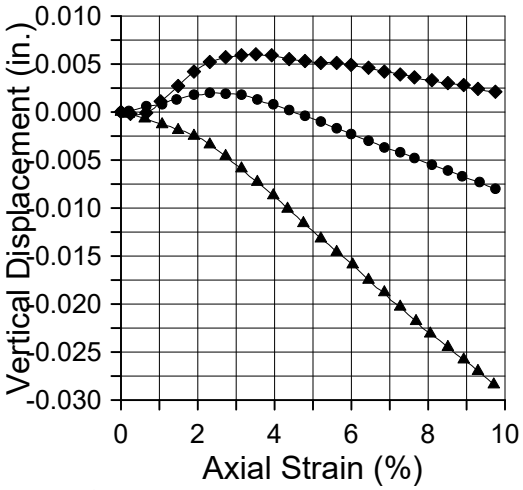
Depth (Feet)	Lith-ology	Material Description	Water	Samples: Blows Per Foot	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
		Asphalt = 2".							
		Silty Sand (SM): Brown; moist; medium dense; fine- to medium-grained sand.							
					■		5.4	115.0	
		@ 4', becomes loose, porous.			■		6.8	98.7	CON
5									
					■		7.3	95.0	
		@ 8', becomes lt reddish-brown.							
10		@ 10', becomes dense.			■		7.4	102.9	
15		@ 15', becomes dense to very dense.			■		4.9	102.6	
		Total Depth 17 feet No Ground water Boring back filled with cuttings.							

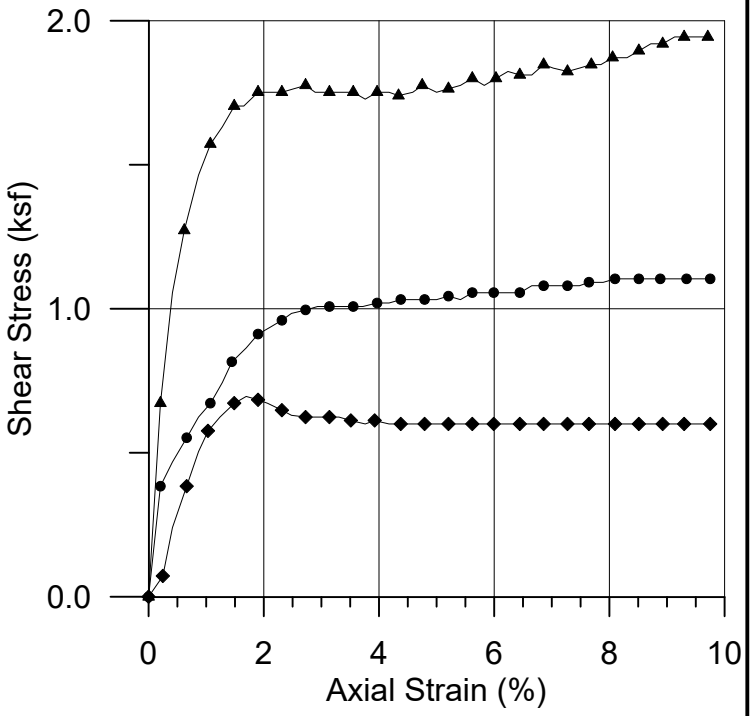
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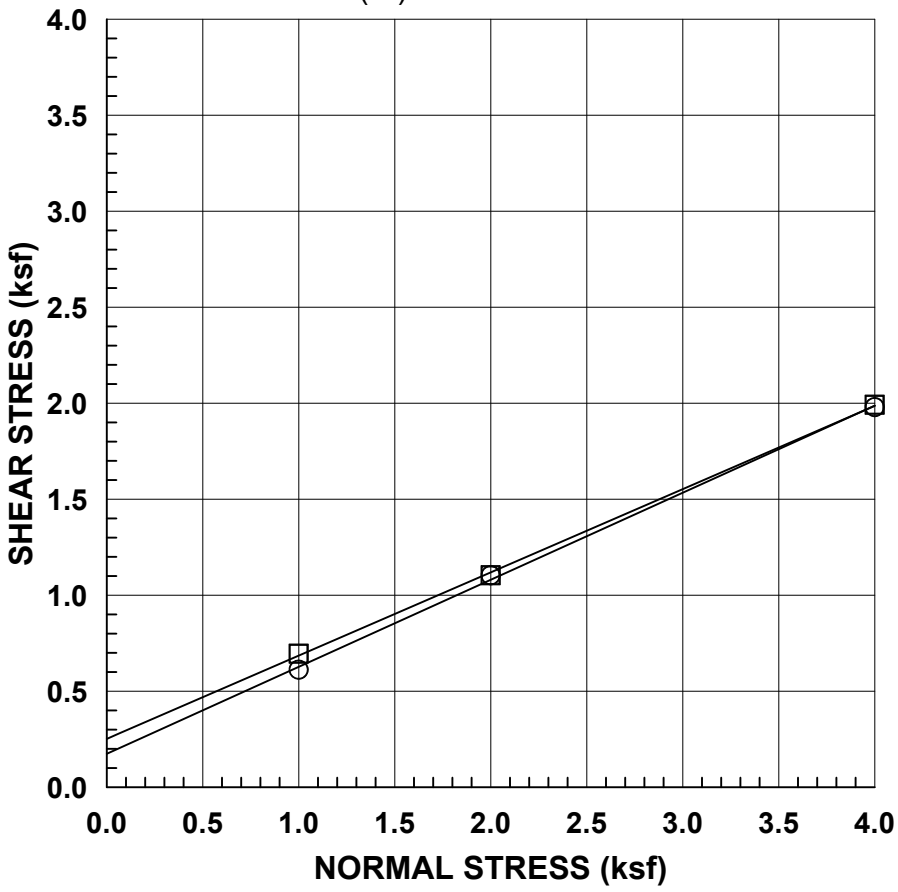
Plate A-3

EXPLORATION LOG - V2 - AKA.GDT - 7/18/13 10:19 - T:\GINT\PROJECTS\2189.00.GPJ

Specimen No.	1	2	3
Normal Stress (ksf)	1	2	4
Peak Stress (ksf)	0.696	1.104	1.992
Peak Displacement (in)	0.0405	0.1955	0.25
Ultimate Stress (ksf)	0.612	1.104	1.98
Ultimate Displacement (in)	0.246	0.246	0.246
Initial Dry Density	110.7	110.7	110.7
Initial Moisture Content (%)	10.86	10.86	10.86
Strain Rate (in/min)	0.050		







Strain Legend

- ◆ 1 Ksf
- ● 2 Ksf
- ▲ 4 Ksf

Strength Legend

- □ Peak
- ○ Ultimate

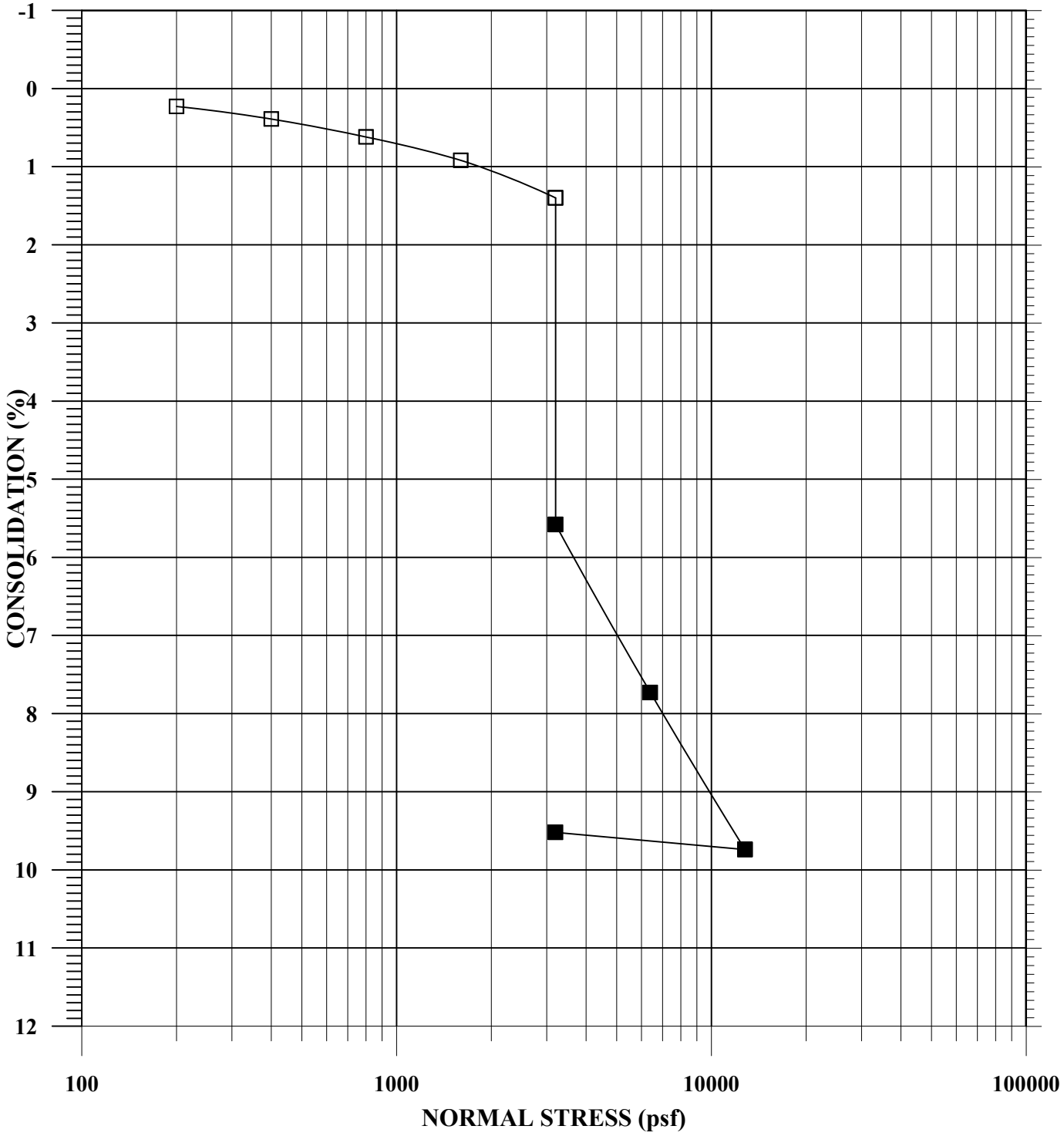
SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
B-1 @ 0-5'	Remolded - Saturated	Silty Sand (SM)

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GEOTECHNICAL CONSULTANTS

DIRECT SHEAR

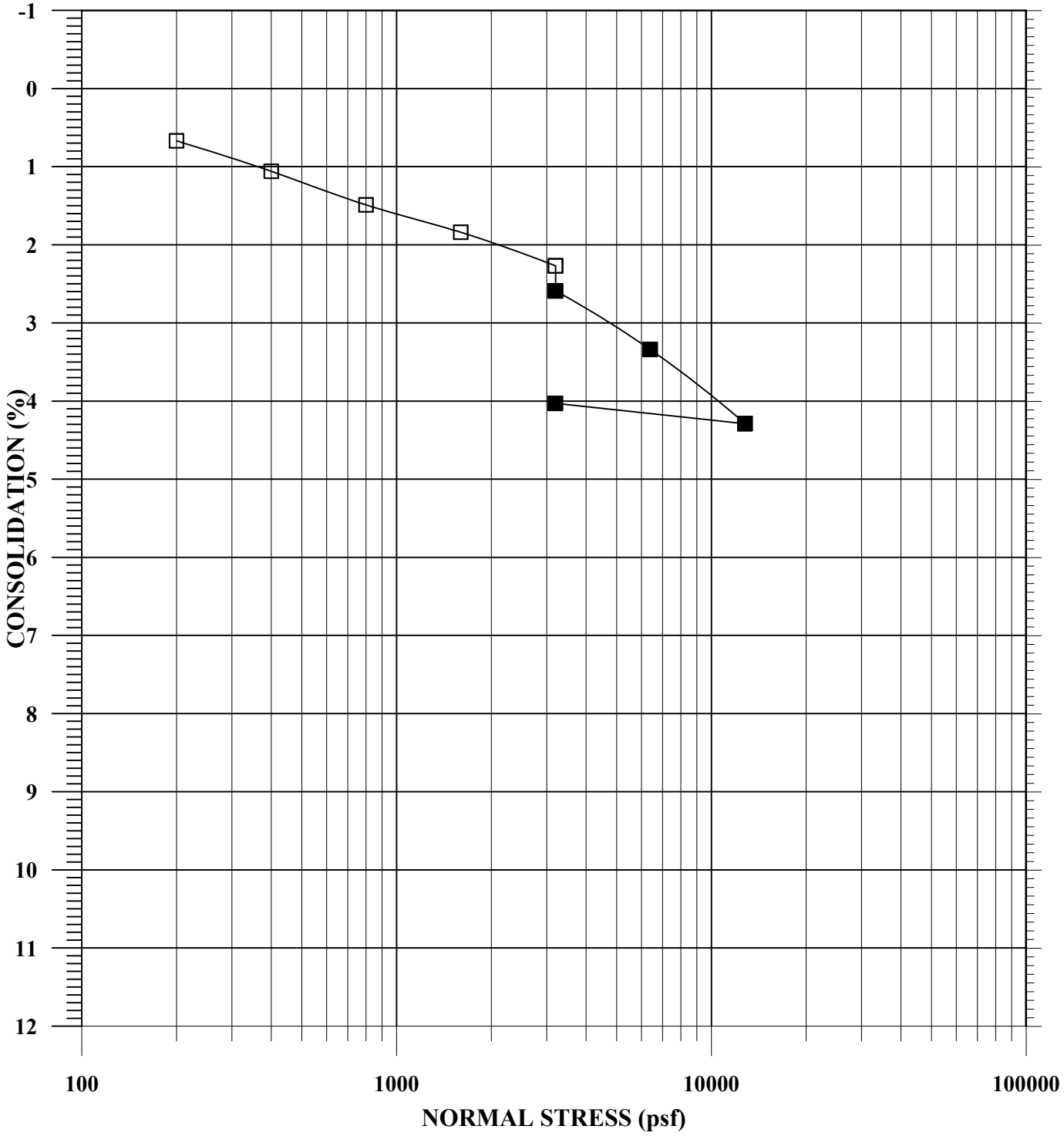
Job No: 2189.00

Plate No: B-1



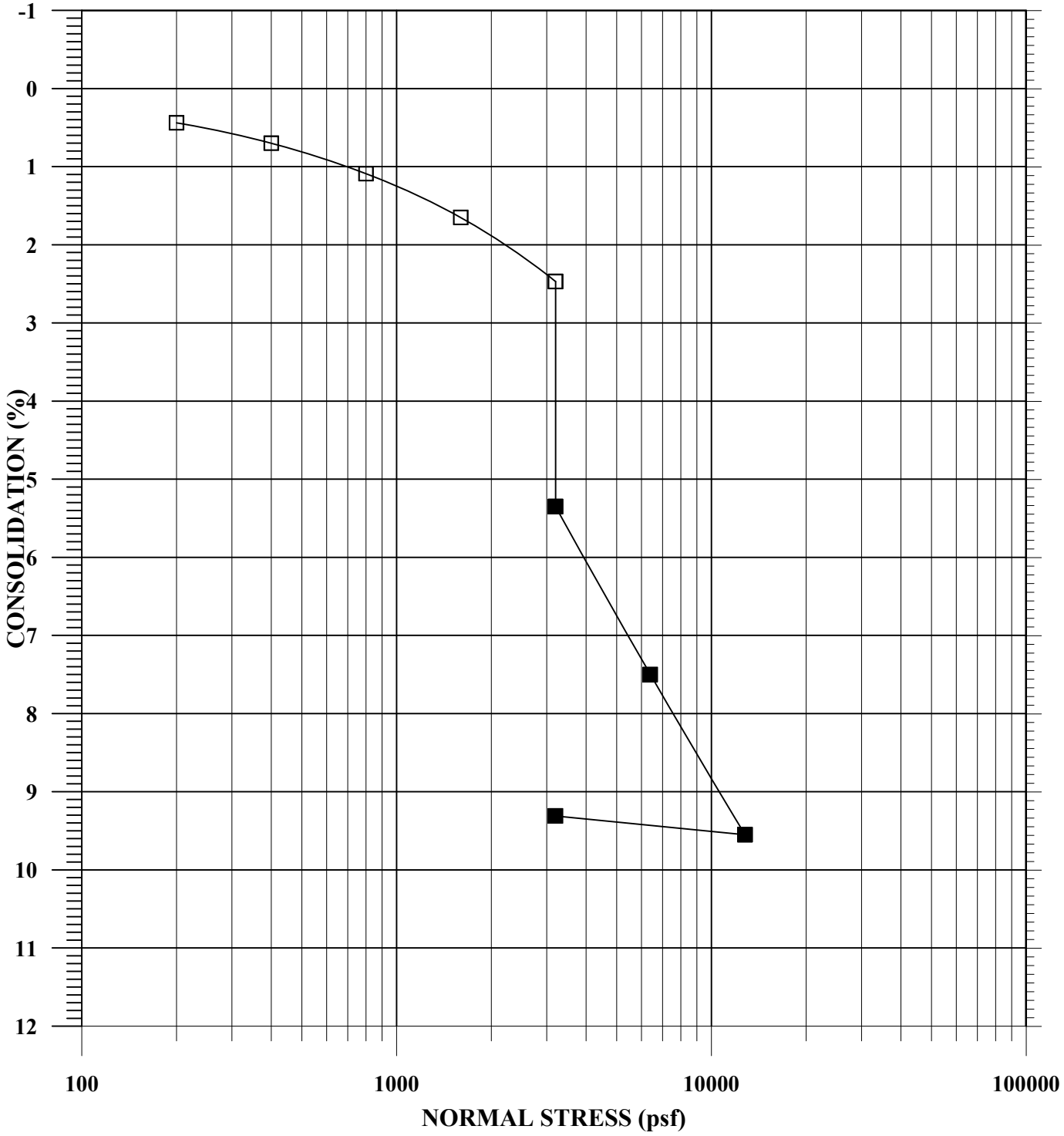
Sample Location:	**B-1**	**Initial Dry Density (pcf):**	**99.5**	
Sample Depth:	**4'**	**Initial Moisure Content:**	**9.2**	**Legend**
Classification:	**SM**	**Final Moisture Content:**	**13.5**	□ □ □ **Field Moisture** ■ ■ ■ **Saturated**

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	**CONSOLIDATION TEST RESULTS**	**Job No: 2189.00** **Plate No. B-2**



Sample Location:	B-1	Initial Dry Density (pcf):	112.2	
Sample Depth:	6'	Initial Moisure Content:	8.3	Legend
Classification:	SM	Final Moisture Content:	12.1	□ □ □ Field Moisture ■ ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2189.00 Plate No. B-3



Sample Location:	B-2	Initial Dry Density (pcf):	101.9	
Sample Depth:	4'	Initial Moisure Content:	8.2	Legend
Classification:	SM	Final Moisture Content:	14.9	□ □ Field Moisture ■ ■ Saturated

ALBUS-KEEFE & ASSOCIATES, INC. GEOTECHNICAL CONSULTANTS	CONSOLIDATION TEST RESULTS	Job No: 2189.00 Plate No. B-4

ENVIRONMENTAL ASSESSMENT

Prepared for:

WHM LLC
c/o Legal Department
501 East Camino Real
Boca Raton, Florida 33432
Sam Gleeson



PHASE I ENVIRONMENTAL SITE ASSESSMENT
OF
Fairfield Inn & Suites LA LAX/ El Segundo & Aloft El Segundo - LA Airport
475, 525, 545 & 629 North Sepulveda Boulevard
El Segundo, California 90049

PREPARED BY:

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800.733.0660
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EMG CONTACT:

Heather Bell
Senior Environmental Consultant
800.733.0660. x6517
hlbell@emgcorp.com

EMG PROJECT NUMBER:

124963.17R000-001.135

DATE OF REPORT:

June 14, 2017

ON SITE DATE:

March 6, 2017

PROJECT SUMMARY TABLE

REPORT SECTION	ACCEPTABLE	ROUTINE SOLUTION	PHASE II	REC	ESTIMATED COST
SIGNIFICANT DATA GAPS	Yes				
CURRENT USE OF PROJECT	Yes				
HAZARDOUS MATERIALS	No (1)	Yes		No	N/A
STORAGE TANKS	Yes				
WASTE GENERATION	Yes				
SURFACE AREAS	Yes				
ADJACENT PROPERTY USE	Yes				
HISTORICAL REVIEW	Yes				
PROJECT REGULATORY DATABASE REVIEW	Yes				
OFF-SITE REGULATORY DATABASE REVIEW	Yes				
VAPOR MIGRATION	Yes				
ASBESTOS	No (2)	Yes		No	$499
RADON GAS	Yes				
LEAD-BASED PAINT	Yes				
LEAD IN DRINKING WATER	Yes				
MOISTURE CONDITIONS	Yes				

Conditions noted in the Project Summary Table are representative of the overall conditions of the property. The Project Summary Table should not be used as a stand alone document. REC - Recognized Environmental Condition, as defined by ASTM E1527-13.

Footnotes:

1. The hydraulic elevator located in the Food & Beverage building was observed to have staining and absorbent materials around the equipment during the site reconnaissance. The staining appeared to be de minimis as it appeared to be limited to the concrete surface in the area surrounding the equipment. No significant cracks were observed in the stained area. Furthermore, based on the reported date of modernization (2005) the hydraulic elevator equipment is unlikely to contain PCBs. As part of property management operations, the elevator company should be contacted to repair the equipment and cleanup the staining, with any waste generated disposed of in accordance with applicable regulations.

2. Based on the dates of construction (1957 - 1978), there is a potential that asbestos containing materials (ACM) exist at the Project. Non-friable ACM in the form of roofing materials, vinyl floor tile, wallboard/joint compound, pipe fittings, plaster, pipe wrap, and various mastics were previously identified at the Project in 2013. Friable ACM in the form of textured ceiling material, ceiling tile, and fireproofing were also previously identified at the Project in 2013. The non-friable and friable ACM were observed in generally good condition. These materials can be maintained in place if an Operations and Maintenance (O&M) Program is developed and implemented. A properly designed O&M Program is sufficient to maintain the Project in accordance with current regulatory standards.

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Appendix H: Regulatory Database Report

Appendix I: Key Personnel Resumes

1.0 EXECUTIVE SUMMARY

EMG performed a Phase I Environmental Site Assessment of the property summarized below on March 6, 2017.

The assessment was performed at the Client's request using methods and procedures consistent with good commercial and customary practice conforming with ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to, or deletions from, this practice are described in Section 2 of this report. The assessment was completed for the following property:

PROJECT DESCRIPTION	
Project Name:	Fairfield Inn & Suites LA LAX/ El Segundo & Aloft El Segundo - LA Airport (the "Project")
Project Address:	475, 525, 545 & 629 North Sepulveda Boulevard, El Segundo, Los Angeles County, California 90049
Additional Current/Historical Addresses:	621 North Sepulveda Boulevard (Historical)
Assessor Parcel Number(s):	4139-025-091, 4139-024-058, 4139-024-057, 4139-025-081, 4139-025-073, 4139-025-076, 4139-025-074, 4139-025-075
Site Visit Date:	March 6, 2017
Property Type:	Hospitality
Land Area (acres):	6.37
Number of Units:	596 guestrooms
Number of Buildings:	Four
Year Constructed:	1957: Fairfield Inn - Main Tower (525 North Sepulveda Boulevard) 1957: Food & Beverage Building (545 North Sepulveda Boulevard) 1969: Fairfield Inn - West Tower (525 North Sepulveda Boulevard) 1978: ALoft (475 North Sepulveda Boulevard)
Basement:	Yes
Domestic Sewage:	Public utility - City of El Segundo
Gross Building Area (SF):	336,000
Net Rentable Area (SF):	Not applicable



Northern parking area



Northeast elevation Fairfield Suites



East elevation Fairfield Suites



South parking area



South elevation aLoft



West elevation aLoft



Courtyard



Pool area overview



Roof

SITE RECONNAISSANCE CONDITIONS	
Date Completed:	March 6, 2017
EMG Project Manager:	Andrew Zahurak
Weather Conditions:	Sunny
Temperature (F):	60s
Percent of Units Observed:	Approximately 10%
Access Limitations:	EMG was unable to access occupied guest rooms or the vaulted transformer room. The lack of access represents a data gap. However, based on the conditions observed in the accessed areas, discussions with the site contact, and review of other available information, the lack of access does not represent a significant data gap.

ENVIRONMENTALLY SUSPECT PROJECT USE	
PROJECT USE	CURRENTLY LOCATED AT THE PROJECT
Cellular Communications Equipment:	No

ENVIRONMENTALLY SUSPECT PROJECT USE	
PROJECT USE	CURRENTLY LOCATED AT THE PROJECT
Commercial Printing:	No
Dry Cleaner:	No
Emergency Generator or Diesel Fire Pump:	Yes. Further discussed at end of Section 5.2.
Gasoline Station:	No
Heavy Industrial Use:	No
Landfill:	No
Machine Shop:	No
Military Use:	No
Oil Well:	No
Photograph/X-Ray Developing:	No
Vehicle Repair:	No

CHRONOLOGICAL HISTORY OF PROJECT			
YEARS	PROJECT USE	TENANTS	ENVIRONMENTAL CONCERN
Prior to 1928	No historical data available.	Not applicable	No
1928 - 1930s	Agricultural	Not applicable	No
1930s - 1950s	The northern portion of the Project is developed with a U-shaped structure, which is an apparent motel. The remaining areas of the Project appear to be agricultural with the exception of a small structure, possibly residential, along the southern portion of the Project.	The northern U-shaped structure is identified in City Directories dated 1957 and 1960 as “One O One Motel” with an associated address of 621 North Sepulveda Boulevard.	No
1957 - Mid 1970s	The Project is developed with a Food and Beverage Building, Main Building and West Tower. By 1972, the northern portion of the Project is shown as a parking lot.	Hacienda Hotel	No
1978 - Current	In addition to the previously described Project buildings, the south hotel tower of the Project is constructed in 1978.	Hacienda Hotel; Fairfield Inn; aLoft hotel	No

1.1 FINDINGS AND OPINIONS

This assessment has revealed no evidence of recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), controlled recognized environmental conditions (CRECs), significant data gaps, or significant business environmental risks in connection with the Project, except as discussed below.

HAZARDOUS MATERIALS

Business Environmental Risk: Leaking Hydraulic Elevator Equipment

The hydraulic elevator located in the Food & Beverage building was observed to have staining and absorbent materials around the equipment during the site reconnaissance. The staining appeared to be de minimis as it appeared to be limited to the concrete surface in the area surrounding the equipment. No significant cracks were observed in the stained area. Furthermore, based on the reported date of modernization (2005) the hydraulic elevator equipment is unlikely to contain PCBs.

As part of property management operations, the elevator company should be contacted to repair the equipment and cleanup the staining, with any waste generated disposed of in accordance with applicable regulations.

ASBESTOS

Business Environmental Risk: Confirmed ACM

Based on the dates of construction (1957-1978), there is a potential that asbestos containing materials (ACM) exist at the Project. Non-friable ACM in the form of roofing materials, vinyl floor tile, wallboard/joint compound, pipe fittings, plaster, pipe wrap, and various mastics were previously identified at the Project in 2013. Friable ACM in the form of textured ceiling material, ceiling tile, and fireproofing were also previously identified at the Project in 2013. The non-friable and friable ACM were observed in generally good condition.

These materials can be maintained in place if an Operations and Maintenance (O&M) Program is developed and implemented. A properly designed O&M Program is sufficient to maintain the Project in accordance with current regulatory standards.

1.2 RECOMMENDATIONS

EMG recommends the following:

RECOMMENDATION	ESTIMATED COST
As part of property management operations, the elevator company should be contacted to repair the equipment and cleanup the staining, with any waste generated disposed of in accordance with applicable regulations.	Not Applicable
The development and implementation of an Asbestos O&M Program. Costs indicated are for O&M Program Document development only. Comprehensive survey costs, if required, will be identified as a result of O&M Program implementation.	$499

1.3 CERTIFICATION

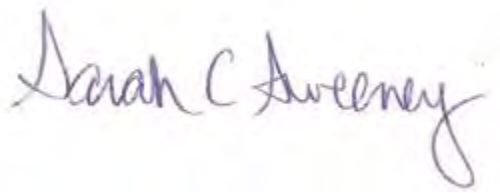
EMG certifies that EMG has no undisclosed interest in the subject property, that EMG's relationship with the Client is at arms-length, and that EMG's employment and compensation are not contingent upon the findings or recommendations provided in the Report.

If you have any questions regarding this report, please contact Heather Bell at (800) 733-0660 x6517 or hlbell@emgcorp.com.

Surveyed By: Andrew Zahurak, Project Manager

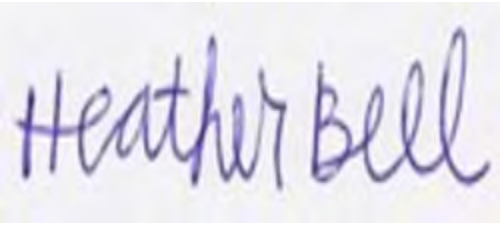
Written By: Marlee Forsthoffer, Project Manager

Reviewed By:



Sarah C. Sweeney, Technical Report Reviewer

Environmental Professional:



Heather Bell, Senior Environmental Consultant

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Project. I have developed and performed the all appropriate inquiries in conformance with the standard and practices set forth in 40 CFR Part 312.

1.4 RELIANCE

This report has been prepared for and is exclusively for the use and benefit of the Client identified on the cover page of this report. The purpose for which this report shall be used shall be limited to the use as stated in the contract between the client and EMG.

This report, or any of the information contained therein, is not for the use or benefit of, nor may it be relied upon by any other person or entity, for any purpose without the advance written consent of EMG. Any reuse or distribution without such consent shall be at the client's or recipient's sole risk, without liability to EMG.

2.0 SCOPE OF WORK

2.1 PURPOSE

The purpose of this report is to provide the Client the results of a commercially prudent and reasonable inquiry designed to identify recognized environmental conditions at the Project taking into account reasonably ascertainable information. In accordance with ASTM E1527-13, the level of environmental assessment was guided by several factors, including the type of property and the risk tolerance of the user.

The user informed EMG that the purpose of the assessment is for an acquisition.

2.2 SCOPE OF WORK

The assessment was conducted utilizing generally accepted Phase I industry standards, using American Society for Testing and Materials (ASTM) Standard Practice E 1527-13.

This assessment is based on the evaluation of the information gathered, laboratory analyses of samples collected (when required), and accessibility at the time of the assessment.

The Scope of Work included an evaluation of:

- Interviews with individuals knowledgeable about the Project for the purpose of gathering information regarding the potential for contamination at the Project.
- Available pertinent documents obtained by EMG or provided by the client.
- Reasonably ascertainable federal, state, and local records in an effort to identify sites of known or suspected hazardous waste activity located at or near the Project.
- The Project history in an attempt to identify possible ownership(s) and/or uses, as identified through review of reasonably ascertainable standard historical sources.
- The physical characteristics of the Project, as identified through review of reasonably ascertainable topographic data, wetlands, soils, geology, and groundwater data.
- Current Project conditions (as applicable) as they pertain to the presence or absence of: facility storage tanks, drums, containers (above or below ground), etc., transformers and other electrical equipment which utilize fluid which may potentially contain PCBs, the use of hazardous materials/chemicals and petroleum products, and/or the generation, treatment, storage, or disposal of hazardous, regulated, or medical wastes.
- An evaluation of information contained in programs such as the NPL, SEMS, CERCLIS, SHWS, RCRIS, SWF, LUST, and other governmental information systems within specific search distances of the Project. This evaluation was performed to identify sites that represent a recognized environmental condition. The regulatory agency report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The search is designed to meet the requirements of ASTM Standard Practice E 1527-13. The information provided is assumed to be correct and complete.
- Visual observation of the adjacent properties to identify high-risk neighbors and the potential for known or suspected contamination to migrate onto the Project.

2.3 ASTM E1527 NON-SCOPE CONSIDERATIONS

At the Client's request, the assessment included a screening approach for the following Non-ASTM Considerations, which are otherwise beyond the Scope of ASTM E1527-13.

NON-ASTM CONSIDERATIONS	
NON-ASTM CONSIDERATION	SCOPE OF WORK
Asbestos Containing Materials:	The identification of suspect asbestos containing materials in accessible areas. Sampling of suspect materials was not performed.
Radon Gas:	Radon gas propensity, through the review of the USEPA's Map of Radon Zones.
Lead Based Paint:	The identification of lead-based paint for residential and daycare properties constructed prior to 1978.
Lead In Drinking Water:	A screening for lead in water, based on information provided by the municipal water provider.
Moisture Conditions:	The identification of visible moisture conditions and conditions conducive for moisture conditions. In addition, EMG interviewed Project personnel regarding any known or suspected moisture conditions, water intrusion, or mildew like odors.
Wetlands:	Review of readily available wetlands map data available from the US Fish and Wildlife Service. A site specific wetland delineation is beyond the scope of this assessment.
Flood Zone:	Review of readily available flood zone map designations available from regulatory agencies, such as the Federal Emergency Management Agency (FEMA).

3.0 USER PROVIDED INFORMATION

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") (if desired), the user must provide certain information (if available) identified in the User Questionnaire to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

Within this Phase I Environmental Site Assessment, EMG's reference to the Client follows the ASTM guide's definition of user, that is, the party that retains EMG for the preparation of a baseline ESA of the Project. A user may include, without limitation, a purchaser, potential tenant, owner, existing or potential mortgagee, lender, or property manager of the Project.

3.1 USER QUESTIONNAIRE

EMG submitted the following User Questionnaire to the user pursuant to the responsibilities described in Section 6 of ASTM Standard E 1527-13. All Appropriate Inquires (40 CFR Part 312) requires that these questions be answered by or on behalf of a party seeking to qualify for limited liability protections to CERCLA liability.

A completed User Questionnaire was not returned to EMG. The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of the User Questionnaire does not represent a significant data gap. A copy of the User Questionnaire is included in Appendix D.

3.2 ENVIRONMENTAL LIEN/AUL SEARCH

The presence of an Activity and Use Limitation (AUL) at a property is an indication that there may be residual levels of hazardous substances or petroleum products present above unrestricted land use levels. Although Environmental Liens and AULs are often recorded with the property deed at the local land title office, in some cases they are filed in a separate environmental agency database or in project documentation, such as agency closure letters. ASTM E1527-13 does not require the environmental professional to undertake a review of recorded land title records and judicial records for environmental liens and AULs. Such a review is performed at the discretion of the user, based on their need to meet the requirements of 40 CFR 312.20 and 312.25.

The user did not engage EMG to review title and judicial records for environmental liens or AULs recorded against the Project. Furthermore, these documents were not provided to EMG for review. The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of the Environmental AUL/Lien search does not represent a significant data gap.

4.0 PHYSICAL SETTING

ASTM E1527-13 requires that the current 7.5-minute USGS Topographic Map (or equivalent) showing the area on which the Project is located be reviewed. Additional physical setting sources, such as soil survey maps, groundwater maps and geologic maps may be obtained and reviewed at the discretion of the environmental professional. The purpose of this review is to evaluate whether hazardous substances or petroleum products are likely to migrate to the Project.

4.1 TOPOGRAPHY

The most recent version of the USGS Topographic Map available is discussed below. Historical USGS Topographic Maps, if available, are discussed in Section 6.

USGS TOPOGRAPHIC MAP REVIEW	
Topographic Map Name:	Venice, California
Topographic Map Year:	2015
PROJECT TOPOGRAPHY	
Upper Elevation (feet):	140
Lower Elevation (feet):	110
Surface Slope:	Gently sloping
Slope Direction:	South
GENERAL VICINITY TOPOGRAPHY	
Slope Direction:	South
Nearest Surface Water Feature:	Pacific Ocean
Nearest Surface Water Feature Distance:	Approximately one mile
Nearest Surface Water Feature Direction:	Southwest

4.2 GEOLOGY

The generalized geology of the Project area was researched using readily available geologic maps.

GENERALIZED GEOLOGY	
Source:	1:2,500,000 scale Geology of the Conterminous United States map published by the USGS and dated 1974
Geologic Description:	Marine and sedimentary materials

4.3 HYDROGEOLOGY

Groundwater conditions at the Project are estimated based on reasonably available data such as groundwater maps, previous subsurface investigations conducted at, or in the vicinity of the Project, and local conditions. Shallow groundwater flow is generally expected to follow the ground level slope of surface elevations towards the nearest open body of water. Estimated groundwater levels may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

HYDROGEOLOGY	
Source:	Estimated from local topography and presence of nearby surface water features
Estimated Depth to Shallow Groundwater:	Approximately 30 to 50 feet below ground surface
Estimated Direction of Groundwater Flow:	South

4.4 SOILS

Review of the Natural Resources Conservation Service (NRCS) Web Soil Survey identified the following soil type(s) at the Project:

SOIL SERIES NAME	DRAINAGE	TEXTURE	DEPTH
Urban Land-Abaft	Somewhat excessively drained	Sand	More than 80 inches
Urban Land-Marina	Somewhat excessively drained	Loamy sand	More than 80 inches

5.0 SITE RECONNAISSANCE

The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the property. In accordance with ASTM E1527-13, EMG attempted to visually observe the periphery of the Project and all structures to the extent not obstructed by obstacles. In addition, EMG attempted to visually observe interior common areas, maintenance and repair areas, and a representative sample of occupant spaces. In general, EMG does not look under floors, above ceilings, behind walls, in confined spaces, in transformer vaults, or in other areas not considered to be safe to access.

SITE RECONNAISSANCE CONDITIONS	
Date Completed:	March 6, 2017
EMG Project Manager:	Andrew Zahurak
Weather Conditions:	Sunny
Temperature (F):	60s
Percent of Units Observed:	Approximately 10%
Access Limitations:	EMG was unable to access occupied guest rooms or the vaulted transformer room. The lack of access represents a data gap. However, based on the conditions observed in the accessed areas, discussions with the site contact, and review of other available information, the lack of access does not represent a significant data gap.

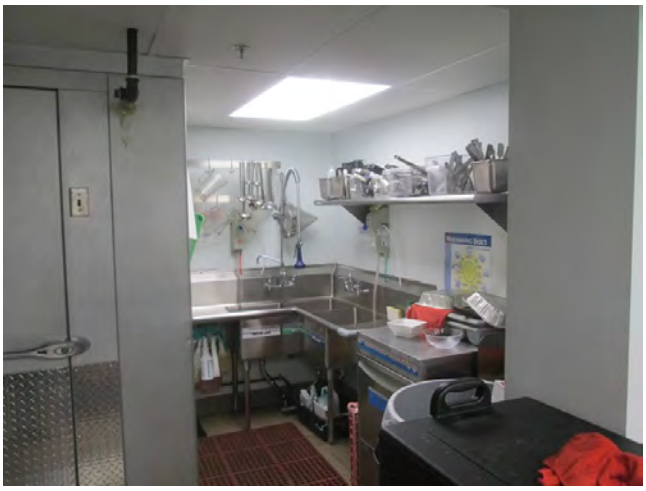
5.1 UNITS OBSERVED

The units observed at the Project are discussed below.

HOTEL UNITS OBSERVED
Aloft: 814, 822, 908, 910, 914, 932, 930, 928, 925, 923, 908, 801, 804, 805, 809, 812, 816, 820, 826, 732, 728, 625, 624, 526, 525, 428, 407, 408, 304, 210, 106
Fairfield: 118, 131, 122, 200, 260, 574, 575, 775, 778, 781, 401, 406, 408, 417, 421, 425, 433, 435, 441, 443, 349, 348, 343, 336, 335, 332, 329, 324, 317, 315, 300, 215, 227, 119, 881, 870, 766, 777, 678, 681, 581, 575, 480, 481
EMG accessed the Food & Beverage building at the Project which is not currently occupied. This building was formerly operated as a restaurant, bar and meeting space by the Hacienda Hotel. The building is vacant and currently utilized for miscellaneous hotel storage.



Guest room



Kitchen



Dining area



Ballroom

5.2 PROJECT USE

ENVIRONMENTALLY SUSPECT PROJECT USE	
PROJECT USE	CURRENTLY LOCATED AT THE PROJECT
Cellular Communications Equipment:	No
Commercial Printing:	No
Dry Cleaner:	No
Emergency Generator or Diesel Fire Pump:	Yes. Further discussed at end of Section 5.2.
Gasoline Station:	No
Heavy Industrial Use:	No
Landfill:	No
Machine Shop:	No
Military Use:	No
Oil Well:	No

ENVIRONMENTALLY SUSPECT PROJECT USE	
PROJECT USE	CURRENTLY LOCATED AT THE PROJECT
Photograph/X-Ray Developing:	No
Vehicle Repair:	No

EMERGENCY GENERATOR	
Location:	aLoft penthouse
Fuel Type:	Diesel
Tank Type:	Aboveground Storage Tank
Leaks or Spills Observed:	Yes; minor staining was observed on the concrete floor adjacent to the generator. The staining appeared to be surficial in nature and the result of poor housekeeping practices.
Conclusion:	Based on the information provided above, this Project use does not represent a recognized environmental condition.



Diesel-fired emergency generator



De minimis staining

5.3 HAZARDOUS MATERIALS AND PETROLEUM PRODUCTS

Accessible interior and exterior areas of the Project were observed for the presence of hazardous materials and petroleum products.

EMG evaluated any observed manways, vent pipes, fill connections, concrete pads, and unknown saw cuts to determine if USTs are present at the Project, or if USTs were historically located at the Project. In addition, the Key Site Manager and other property management personnel were interviewed regarding the presence of USTs at the Project.

EMG observed the Project for the presence of potentially PCB-containing equipment such as electrical transformers and hydraulic lifts. Equipment installed after 1979 is unlikely to contain PCBs.

EMG observed the Project for visual evidence of petroleum and natural gas pipelines, such as pipeline markers.

STORAGE AND USE OF HAZARDOUS MATERIALS AND PETROLEUM PRODUCTS	
FEATURE	IDENTIFIED AT PROJECT
Drums and Small Containers:	Yes. Further discussed below.
Underground Storage Tanks (USTs):	No
Aboveground Storage Tanks (ASTs):	Yes. Further discussed below.
Oil Cooled Transformers:	Yes. Further discussed below.
Hydraulic Elevator Equipment:	Yes. Further discussed below.
Hydraulic Lift Equipment:	No
Petroleum or Natural Gas Pipelines:	No

DRUMS AND SMALL CONTAINERS			
MATERIAL	QUANTITY	STORAGE LOCATION	SPILLS OR LEAKS
Janitorial and maintenance supplies	Retail-size containers	Janitor closets and other designated areas	No
Diesel	100-gallons	Aboveground tank	No
Propane	Retail-size containers	Back of house	No
Water treatment chemicals	30-gallon container	HVAC equipment area	No

Review of the hazardous materials use and storage at the Project did not identify any recognized environmental conditions or environmental concerns with regards to the materials listed in the table above.



Maintenance/janitorial supplies



Maintenance/janitorial supplies



Maintenance/janitorial supplies



Housekeeping supplies



Maintenance/janitorial supplies



Detergents



Propane



Water treatment chemicals

ABOVEGROUND STORAGE TANKS	
Tank #:	1
Owner:	Project
Year Installed:	1979
Contents:	Diesel
Capacity:	100-gallons
Visually Observable:	Yes
Weep Holes Present:	Not Applicable
Secondary Containment:	Yes, within utility penthouse
Location:	aLoft penthouse
Tank Construction:	Single-wall steel
Registered With State:	Not required
Leaks Observed:	Yes; minor staining was observed on the concrete floor adjacent to the generator. The staining appeared to be surficial in nature and the result of poor housekeeping practices.
Leaks Reported by POC:	No
Conclusion:	The Key Site Manager was unaware of any past releases from the AST. Furthermore, the AST appeared to be in good condition, with no evidence of current or past releases.



Diesel-fired emergency generator



De minimis staining

OIL COOLED TRANSFORMERS	
Type:	Pad-mounted and Vaulted
Number of Units:	One Pad-mounted and One Vaulted
Owner:	Utility company
Labeled:	Not labeled
Age:	Appears to have been installed after 1979
PCB Status:	Unlikely to be PCB-contaminated based on the apparent age of the equipment.
Spills or Leaks Observed:	No

OIL COOLED TRANSFORMERS	
Conclusion:	Based on the information above, the presence of this equipment does not represent a recognized environmental condition.



Electrical transformer



Electrical transformer room (no access)

HYDRAULIC ELEVATORS	
Number of Elevators:	6 Hydraulic and 3 Traction Elevators
Owner:	Property
Age:	Reported to have been modernized after 1979
PCB Status:	Unlikely to be PCB-contaminated based on the apparent age of the equipment.
Spills or Leaks Observed:	Yes
Conclusion:	The hydraulic elevator equipment located in the Food & Beverage building was observed to have de minimis staining and absorbent materials around the equipment during the site reconnaissance. The staining appeared to be limited to the concrete surface in the area surrounding the equipment. No significant cracks were observed in the stained area. Furthermore, based on the reported date of modernization (2005) the hydraulic elevator equipment is unlikely to contain PCBs. Refer to Section 1.1 for further discussion.



Traction elevator equipment in aLoft



Hydraulic elevator equipment in the Food and Beverage building



Hydraulic elevator equipment with staining and absorbent materials in the Food and Beverage building



Hydraulic elevator equipment with staining in the Food and Beverage building

5.4 WASTE GENERATION, STORAGE, AND DISPOSAL

Visual observation for the generation, treatment, storage, and disposal of wastes was performed. The areas of waste generation and storage were observed for evidence of current and past releases.

Although a waste disposal regulatory compliance audit is beyond the scope of this assessment, general waste disposal procedures were evaluated to determine if any deficiencies exist that are likely to result in a release to the Project.

WASTE GENERATION AND DISPOSAL	
FEATURE	IDENTIFIED AT PROJECT
Waste Generation:	Yes. Further discussed below.
Septic Systems:	No
Sewer Lift Stations:	No
Grease Traps:	Yes. Further discussed below.

WASTE GENERATION AND DISPOSAL	
FEATURE	IDENTIFIED AT PROJECT
Oil Water Separators:	No
Unknown Drums or Containers:	No
Waste Disposal Ponds or Lagoons:	No

WASTE GENERATION			
WASTE TYPE	DISPOSAL METHOD	STORAGE LOCATION	SPILLS OR LEAKS
Domestic sewage	Sanitary sewer	Not applicable	No
Municipal trash	Contracted waste hauler	Dumpsters	No
Medical waste (red bags and/or sharps)	Contracted waste hauler	Designated storage area	No
Cooking grease	Contracted waste hauler	Steel grease container and trap	No
Used oil	Contracted waste hauler	55-gallon drums	No

Review of waste storage and disposal information did not identify any recognized environmental conditions or environmental concerns with regards to the wastes listed in the table above.

Of note, the used oil is generated as the result of minor vehicle maintenance operations for hotel shuttle vehicles. No environmental concerns were noted.



Trash dumpsters



Medical waste storage



Grease trap in Fairfield Suites



Grease trap Fairfield Suites



Grease trap Fairfield Suites



Used oil

GREASE TRAPS	
Type:	Above and in-ground steel
Wastes:	Cooking grease
Year Installed:	Not reported
Currently Active:	Yes
Reported Condition:	Good
Observed Condition:	Good
Location:	Kitchens
Sanitation Department Violations:	According to site contact, there are no outstanding violations.
Conclusion:	Based on the information above, the presence of the grease traps do not represent a recognized environmental condition.



Grease trap in Fairfield Suites



Grease trap Fairfield Suites



Grease trap Fairfield Suites

5.5 SURFACE AREAS

The interior and exterior surface areas were observed for environmentally significant features such as wells, sumps, staining, and pits.

SURFACE AREAS	
FEATURE	IDENTIFIED AT PROJECT
Floor Drains, Sumps and Pits:	Yes. Further discussed below.
Pools of Liquid Waste:	No
Surface Staining:	Yes. Further discussed below.
Unusual or Noxious Chemical Odors:	No
Landfilling:	No
Stressed Vegetation:	No
Stormwater Retention/Detention Basins:	No
Domestic Water Wells:	No

SURFACE AREAS	
FEATURE	IDENTIFIED AT PROJECT
Monitoring Wells:	No
Irrigation Wells:	No
Dry Wells:	No

FLOOR DRAINS AND SUMPS					
TYPE OF DRAIN	# OF DRAINS	DISCHARGE POINT	STAINING OR ODORS OBSERVED	CONNECTED TO OIL/ WATER SEPARATOR	LOCATION
Floor	1	Municipal	None	Not applicable	HVAC equipment room



Floor drain for HVAC condensate

SURFACE STAINING				
LEVEL OF STAINING	ONGOING RELEASE	SURFACE MEDIA	SURFACE CONDITION	LOCATION
Moderate	Unknown	Concrete	Good	Hydraulic elevator equipment room located in the Food & Beverage building

Refer to Section 1.1 for further discussion.



Hydraulic elevator equipment with staining and absorbent materials in Food and Beverage building



Hydraulic elevator equipment with staining in Food and Beverage building

5.6 UTILITIES, HEATING, AND COOLING

UTILITIES	
Domestic Water:	Public utility - City of El Segundo
Electricity:	Public utility - Southern California Edison
Natural Gas:	Public utility - The Gas Company
Domestic Sewer:	Public utility - City of El Segundo

HEATING AND COOLING	
Type of Heating:	Natural gas units
Type of Cooling:	Electric units



Roof and HVAC equipment



Roof and HVAC equipment



Natural gas-fired boilers



PTAC unit

5.7 ADJACENT PROPERTY USE

The adjacent properties were visually observed for evidence of recognized environmental conditions, such as property uses likely to result in a release, and visual evidence of surface migration of releases. The following adjacent properties were identified:

ADJACENT PROPERTY USE	
NORTH	
Address Range:	639 North Sepulveda Boulevard
Property Use / Business Name:	Carl's Jr. restaurant and residences
EAST	
Address Range:	601-603 North Sepulveda Boulevard; 600-630 North Sepulveda Boulevard; 500-550 North Sepulveda Boulevard; 400-460 North Sepulveda Boulevard; 300-390 North Sepulveda Boulevard
Property Use / Business Name:	Gas station; Shopping centers and Medical building
SOUTH	
Address Range:	331 North Sepulveda Boulevard and 1750 East Holly Avenue
Property Use / Business Name:	Walgreens and Studi Printing
WEST	
Address Range:	Not Applicable
Property Use / Business Name:	Residential
FINDINGS	
Environmentally Suspect Uses:	Yes, a gasoline station is located at 603 North Sepulveda Boulevard. The underground storage tanks associated with the gasoline station are located approximately 50 feet from the Project. No monitoring wells or other visual evidence of a current or past release associated with the gasoline station were observed.
Visual Evidence of a Release:	No visual evidence of a release, such as staining or monitoring wells, was observed.

ADJACENT PROPERTY USE	
Releases Reported:	The adjacent gas station at 603 North Sepulveda Boulevard is identified on the LUST database, indicating a release occurred at this facility. Refer to Section 7.1.2 for further discussion.
Conclusion:	Refer to Section 7.1.2 for further discussion of the regulatory database listing associated with the adjacent gas station. No other recognized environmental conditions or environmental concerns were identified.



North adjacent, residences



Northeast adjacent, Carl's Jr. restaurant



Adjacent east gasoline station



East adjacent, medical building and shopping center



West adjacent, residences



West adjacent, residences



Southwest adjacent, commercial buildings



South adjacent, Walgreens

5.8 INTERVIEWS

5.8.1 KEY SITE MANAGER

EMG attempted to interview the Key Site Manager as part of this assessment. In addition, a Questionnaire was provided to the Key Site Manager to assist EMG in determining if recognized environmental conditions exist at the Project. A copy of the Key Site Manager Questionnaire is included in Appendix D.

KEY SITE MANAGER INTERVIEWS			
NAME	RELATIONSHIP TO PROPERTY	YEARS WITH PROPERTY	TELEPHONE NUMBER
Mr. Eric Licas	Director of Engineering	18	818.257.3858

Refer to Section 7.1.2 for further discussion of adjacent gas station, identified by the Key Site Manager Questionnaire.

5.8.2 CURRENT OCCUPANTS

EMG made a reasonable attempt to interview all major occupants and also those other occupants whose operations are likely to indicate a recognized environmental condition.

No occupants of the Project were available or would agree to an interview. The lack of occupant interviews represents a data gap. However, based on the conditions observed in the accessed areas, discussions with the site contact, and review of other available information, the lack of this information does not represent a significant data gap.

5.8.3 CURRENT OWNER

EMG submitted an Owner Questionnaire to the client in an effort to identify the owner of the Project who could be interviewed to provide information regarding proceedings involving the Project.

A completed Owner Questionnaire was not returned to EMG. The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of the Owner Questionnaire does not represent a significant data gap. A copy of the Owner Questionnaire is included in Appendix D.

5.8.4 PAST OWNERS AND OCCUPANTS

No past owners of the Project, who likely would have material information regarding recognized environmental conditions at the Project, were identified.

5.8.5 NEARBY OWNERS AND OCCUPANTS

The Project was not an abandoned property with evidence of unauthorized uses or uncontrolled access; therefore, interviews were not conducted with adjacent or nearby property owners or occupants.

6.0 HISTORICAL USE INFORMATION

The purpose of the historical review is to determine the previous uses of the Project and surrounding area in order to identify the likelihood of past uses having led to a recognized environmental condition. Historical sources that are both reasonably ascertainable, and likely to be useful are reviewed in an attempt to document the historical use of the Project and surrounding areas dating back to 1940, or the first developed use, whichever is earlier.

Copies of representative historical maps/aerial photographs are included in Appendix C. Other historical documentation, such as City Directory abstracts, copies of building department records, and ownership records are included in Appendix F, when available.

The following standard historical sources were researched:

STANDARD HISTORICAL SOURCES		
DATA TYPE	SOURCE	YEARS COVERED
Aerial Photographs:	ERIS	1928, 1938, 1952, 1963, 1972, 1980, 1985, 1994, 2005, 2010, 2012, 2014, 2016
Fire Insurance (Sanborn) Maps:	ERIS	No coverage
USGS Topographic Maps:	USGS	1964, 2012, 2015
Local Street Directories:	EDR	1946, 1954, 1960, 1962, 1964, 1967, 1970, 1971, 1975, 1980, 1990, 1995, 2000, 2007, 2012
Building Department Records:	El Segundo Building Safety Department	Pending response from agency
Fire Department Records:	El Segundo Fire Department	Pending response from agency
Zoning/Land Use Records:	El Segundo Planning Department	Current
Property Tax Files and Land Title Records:	Los Angeles County Assessor	Current
Key Site Manager Interview:	Pre-Survey Questionnaire	1999 - Current
Oil and Gas Well Maps:	California Department of Conservation	2002 - Current
Other Historical Sources:	Previous Phase I assessment and asbestos survey	2013

EMG was not able to obtain standard historical sources that document the Project history in five year intervals. The lack of this information represents a data gap. However, based on the other information obtained during the completion of this assessment, the lack of this information does not represent a significant data gap.

6.1 PROJECT HISTORICAL USE

Based on review of the historical resources identified in Section 6.0, the following chronological history was developed for the Project.

CHRONOLOGICAL HISTORY OF PROJECT			
YEARS	PROJECT USE	TENANTS	ENVIRONMENTAL CONCERN
Prior to 1928	No historical data available.	Not applicable	No
1928 - 1930s	Agricultural	Not applicable	No

CHRONOLOGICAL HISTORY OF PROJECT			
YEARS	PROJECT USE	TENANTS	ENVIRONMENTAL CONCERN
1930s - 1950s	The northern portion of the Project is developed with a U-shaped structure, which is an apparent motel. The remaining areas of the Project appear to be agricultural with the exception of a small structure, possibly residential, along the southern portion of the Project.	The northern U-shaped structure is identified in City Directories dated 1957 and 1960 as “One O One Motel” with an associated address of 621 North Sepulveda Boulevard.	No
1957 - Mid 1970s	The Project is developed with a Food and Beverage Building, Main Building and West Tower. By 1972, the northern portion of the Project is shown as a parking lot.	Hacienda Hotel	No
1978 - Current	In addition to the previously described Project buildings, the south hotel tower of the Project is constructed in 1978.	Hacienda Hotel; Fairfield Inn; aLoft hotel	No

OWNERSHIP HISTORY OF PROJECT		
YEAR PURCHASED	OWNER NAME	ENVIRONMENTAL CONCERN
1973	Klaus Enterprises	No
2013	Not specified	No

Review of historical data identified a U-shaped structure consistent with a motel in the northern portion of the Project during the 1930s through the 1960s, and a possible residential structure in the southern portion during the 1930s through 1950s. The former motel is identified in City Directories dated 1957 and 1960 as “One O One Motel” with an associated address of 621 North Sepulveda Boulevard. By 1972, the former motel appears to have been razed and replaced with the current paved parking area. No evidence of concentrated chemical or waste storage or concentrated storage/processing systems was identified at the Project. Specifically, no areas of concern associated with the historic tenant operations (i.e. USTs, septic systems, hazardous material/waste storage areas) have been identified and\interviews conducted with local governmental agencies did not identify any adverse environmental conditions in association with the former Project improvements. In addition, the former motel located at 621 North Sepulveda Boulevard is not listed on any regulatory database for known tank systems, or having a known release, spill or other environmental condition under regulatory investigation.

No evidence of historic dry cleaners was identified.

No evidence of petroleum exploration or production was identified.

6.2 OFF-SITE HISTORICAL USE

Based on review of the historical resources identified in Section 6.0, the following chronological history was developed for the adjacent properties.

CHRONOLOGICAL HISTORY OF ADJACENT PROPERTIES		
YEARS	ADJACENT PROPERTY USE	ENVIRONMENTAL CONCERN
NORTH		
Prior to 1928	No historical data available.	No
1928 - 1950s	Agricultural with scattered residences	No
1950s - 1960s	General commercial	No
1970s- Current	Residential and General commercial	No
EAST		
Prior to 1928	No historical data available.	No
1928 - 1950s	Agricultural	No
1950s - 1960s	Graded land	No
1970s - Current	General commercial Gas station	No
SOUTH		
Prior to 1928	No historical data available.	No
1928 - 1930s	Agricultural	No
1930s - 1950s	Scattered residential and agricultural	No
1960s - Current	General commercial	No
WEST		
Prior to 1928	No historical data available.	No
1928 - 1930s	Agricultural	No
1930s	Scattered residential and agricultural	No
1930s - Current	Residential	No

Refer to Section 7.1.2 for discussion of regulatory database listings associated with adjacent properties.

6.3 HISTORICAL ENVIRONMENTAL DOCUMENTATION

In accordance with ASTM E1527-13, EMG requested that the user provide copies of previous environmental assessments for review. Furthermore, EMG may have obtained prior environmental assessments and regulatory records from local, state, and federal regulatory agencies. The purpose of reviewing prior environmental assessments is to determine if any recognized environmental conditions have previously been identified. Documentation provided to EMG which is unrelated to the the completion of this report may not be reviewed.

REPORT TITLE	PREPARED BY	REPORT DATE	OBTAINED FROM	COPY OF REPORT	CONCERNS IDENTIFIED
Phase I Environmental Site Assessment	EBI Consulting	April 8, 2013	Client	Available Upon Request	No
Asbestos Sampling Report	EBI Consulting	May 1, 2013	Client	Appended	Yes. Further discussed below.

Previous Asbestos Sampling

Asbestos was previously identified in samples of mastic, floor tile, ceiling tile, joint compound, textured ceiling & wall compound, and hard pack elbow to fiberglass pipe insulation at the Project. Refer to Section 8.1 for further discussion of current conditions.

7.0 ENVIRONMENTAL RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions. ASTM E1527-13 requires the review of reasonably ascertainable records from standard sources as defined in Section 8.2.1 of ASTM E1527-13. Additional records sources, such as local fire department records, local building department records, and local environmental health department records may be obtained and reviewed at the discretion of the environmental professional.

The availability of record information varies widely, depending on the source. Reasonably ascertainable records are those records that are publicly available, obtainable within reasonable time and cost constraints, and practically reviewable. In addition, the records must be provided by the agency within 20 calendar days of receiving a request, at no more than a nominal cost intended to cover the source's cost of retrieving and duplicating the information.

7.1 REGULATORY DATABASE REVIEW

EMG obtained a regulatory database report from a commercial database provider in an effort to determine if the Project is a listed regulatory site and whether there are any mappable regulatory database sites within the search distances specified by ASTM E1527-13. EMG attempted to field-verify the locations of the identified regulatory sites, as well as confirm distances and locations relative to the Project using available mapping software. Therefore, the distances and/or directions noted in this section may not match the Database Report. In addition, EMG reviewed the unmappable sites in the database report, cross-referencing addresses and site names.

In accordance with ASTM E1527-13, regulatory files and/or records associated with standard environmental record sources may be obtained and reviewed when the files and/or records are reasonably ascertainable, the files/records are expected to contain significant information for the purpose of identifying recognized environmental conditions, and an alternative source of the information is not available. Furthermore, review of regulatory files and/or records may be limited by the scope of work. Unless otherwise noted in Section 1.1, further review of regulatory agency files and/or records is not considered to be warranted based on the general nature of the regulatory database listing, the level of detail provided in the regulatory database, the availability of information from alternative sources, and/or the low likelihood that the agency files and/or records will contain information indicating the presence of a recognized environmental condition.

A copy of the full regulatory database report is included in Appendix H.

Regulatory Report Summary

DATABASE	SEARCH RADIUS	TARGET PROPERTY	WITHIN 0.12MI	0.12MI TO 0.25MI	0.25MI TO 0.50MI	0.50MI TO 1.00MI	TOTAL
HIST CHMIRS	0.125	0	2	-	-	-	2
INSP COMP ENF	1.0	0	0	0	1	1	2
LA SWF	0.5	0	0	0	1	-	1
ALT FUELS	0.25	0	2	1	-	-	3
AST	0.25	0	0	2	-	-	2
CERCLIS	0.5	0	1	1	3	-	5
CERCLIS NFRAP	0.5	0	1	1	3	-	5
CHMIRS	0.125	0	11	-	-	-	11
CLEANUP SITES	0.5	0	0	0	4	-	4
DELISTED COUNTY	0.25	0	1	5	-	-	6

DATABASE	SEARCH RADIUS	TARGET PROPERTY	WITHIN 0.12MI	0.12MI TO 0.25MI	0.25MI TO 0.50MI	0.50MI TO 1.00MI	TOTAL
DRYCLEANERS	0.25	0	1	0	-	-	1
ELSEGUNDO UST	0.25	4	11	15	-	-	30
ENVIROSTOR	1.0	0	1	0	13	9	23
ERNS	0.125	0	2	-	-	-	2
FINDS/FRS	0.125	4	29	-	-	-	33
HAZNET	0.125	14	68	-	-	-	82
HHSS	0.25	2	7	3	-	-	12
HIST CHMIRS	0.125	0	2	-	-	-	2
HIST MANIFEST	0.125	1	14	-	-	-	15
HWP	1.0	0	0	0	4	1	5
ICIS	0.125	0	3	-	-	-	3
LA HMS	0.25	2	16	19	-	-	37
LA SML	0.5	0	0	1	2	-	3
LUST	0.5	0	3	2	7	-	12
RCRA CORRACTS	1.0	0	0	0	4	1	5
RCRA LQG	0.25	0	1	4	-	-	5
RCRA NON GEN	0.25	0	1	0	-	-	1
RCRA SQG	0.25	0	5	14	-	-	19
RCRA TSD	0.5	0	0	1	5	-	6
SCH	1.0	0	0	0	0	1	1
SEMS ARCHIVE	0.5	0	1	1	3	-	5
UST	0.25	0	1	6	-	-	7
VCP	0.5	0	1	0	2	-	3

7.1.1 PROJECT REGULATORY DATABASE REVIEW

ON-SITE REGULATORY DATABASE LISTINGS		
FACILITY NAME	FACILITY ADDRESS	DATABASES
Hacienda Hotel / Rubicon B Hacienda Hotel	525 North Sepulveda Boulevard	FINDS/FRS, HAZNET
Hacienda Hotel Inc.	525 North Sepulveda Boulevard	LA HMS
Overton Moore & Associates	541 N Sepulveda Boulevard	El Segundo UST

Facility Index System (FINDS)

The FINDS database cross-references various federal and state database listings and does not, in and of itself, typically contain environmentally significant information. The FINDS database provides the following pertinent information:

- Facility Name: Hacienda Hotel

- Facility Address: 525 North Sepulveda Boulevard
- Program Cross Referenced: CA-Enviroview

This listing is for tracking purposes only, and is likely associated with the HAZNET and HMS listings discussed below. The information provided is not indicative of a recognized environmental condition.

Hazardous Waste Manifest Data (HAZNET)
A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

- Facility Name: Rubicon B Hacienda Hotel
- Facility Address: 525 North Sepulveda Boulevard
- Wastes Generated and Disposed: Asbestos containing waste (2015); Aqueous solution with total organic residues less than 10 percent (2014); Unspecified oil-containing waste (1999 - 2014); Laboratory waste chemicals (2004); Off-specification, aged or surplus organics (2004)

The information provided is not indicative of a recognized environmental condition. Refer to Section 5.4 for further discussion of the wastes currently generated at the Project.

Los Angeles County HMS List (LA HMS)

This list contains sites that have or had permits for Industrial Waste, Underground Storage Tanks, or Storm water in the County of Los Angeles. This list is made available by the County of Los Angeles Department of Public Works.

- Facility Name: Hacienda Hotel Inc.
- Facility Address: 525 North Sepulveda Boulevard
- Database Information: The LA HMS listing for the Project is associated with operating an Industrial Waste - Trunk Sewer permit. The permit is listed as Closed. No other pertinent information is provided in the database.

According to the Los Angeles County Sanitation Districts website, industrial wastewater is "defined as all wastewater from any manufacturing, processing, institutional, commercial, or agricultural operation, or any operation where the wastewater discharged includes significant quantities of waste of non-human origin." The requirement for an industrial wastewater permit includes hotels with industrial-sized laundry equipment, which is likely the reason Hacienda Hotel was identified on this database. The information provided is not indicative of a recognized environmental condition.

In addition, review of the regulatory report identified 541 North Sepulveda Boulevard, which falls within the Project address range, on the El Segundo UST database. Information in the database indicates that the UST was operated by Overton Moore & Associates, and was removed on March 12, 1985. Based on review of local agency records, this listing is actually associated with 540 North Sepulveda Boulevard, which is adjacent to the east of the Project across Sepulveda Boulevard. Refer to Section 7.1.2 and Section 7.2 for further discussion of this adjacent property.

7.1.2 OFF-SITE REGULATORY DATABASE REVIEW

Regulatory database listings which have a reasonable potential to impact the Project are discussed below. This determination is based on, but not limited to, factors such as the topographic gradient in relation to the Project, the estimated groundwater flow direction in the vicinity of the Project, the distance between the listed site and the Project, the type of site or materials involved, and/or whether a release to the environment is known or likely to have occurred.

OVERTON MOORE & ASSOCIATES

Facility Address:	540 North Sepulveda Boulevard (corrected address, based on review of local agency records)
Databases:	ELSEGUNDO UST
Distance:	Adjacent
Direction:	East
Estimated Groundwater Flow:	Southwest
Relationship to Project:	Toward the Project
Release Reported:	No
Summary of Other Available Documentation:	Review of documents provided by the El Segundo Fire Department identify the UST owner as Overton Moore & Associates and the facility as Hertz Rent-A-Car with an address of 540 North Sepulveda Boulevard (adjacent to the east of the Project). The documents indicate that one 10,000-gallon gasoline UST and one 5,000-gallon gasoline UST were removed from 540 North Sepulveda in 1985. No soil discolorations or odors were identified during the UST removals. A copy of the Fire Department file is included in Appendix F.
Conclusion:	Based on the lack of a reported release, source removal, time elapsed, and relative distance (across a multi-lane roadway), it is unlikely that this facility has impacted the Project. Therefore, this facility does not represent a recognized environmental condition.
Vapor Migration Concern:	No

TRI CLEANERS / LAX PHOTO LAB	
Facility Address:	630 North Sepulveda Boulevard
Databases:	Drycleaners, FINDS/FRS, HAZNET, RCRA-SQG
Distance:	Adjacent
Direction:	East
Estimated Groundwater Flow:	Southwest
Relationship to Project:	Toward the Project
Release Reported:	No
Summary of Other Available Documentation:	Not Applicable
Conclusion:	Based on the lack of a reported release, current regulatory status, and distance of the drycleaning tenant from the Project, it is unlikely that this facility has impacted the Project. Therefore, this facility does not represent a recognized environmental condition.
Vapor Migration Concern:	No

LAX BUSINESS CENTER/HUGHES AIRCRAFT CO EDSG/ROYAL PAPER INC/BODY WIZARD MEDICINE/DWF IV 300 N SEPULVEDA, LLC	
Facility Address:	360 N Sepulveda Boulevard
Databases:	ElSegundo UST, RCRA SQG, Haznet, LA HMS, HIST Manifest, FINDS, CHMIRS
Distance:	Adjacent

Direction:	Southeast
Estimated Groundwater Flow:	Southwest
Relationship to Project:	Away from the Project
Release Reported:	No
Summary of Other Available Documentation:	Not Applicable
Conclusion:	Based on the lack of a significant reported release and current regulatory status, it is unlikely that this facility has impacted the Project. Therefore, this facility does not represent a recognized environmental condition.
Vapor Migration Concern:	No

SEGUNDO ASSOCIATES	
Facility Address:	600 N Sepulveda Boulevard
Databases:	ElSegundo UST
Distance:	Adjacent
Direction:	East
Estimated Groundwater Flow:	Southwest
Relationship to Project:	Toward the Project
Release Reported:	No
Summary of Other Available Documentation:	Not Applicable
Conclusion:	Based on the lack of a reported release and current regulatory status, it is unlikely that this facility has impacted the Project. Therefore, this facility does not represent a recognized environmental condition.
Vapor Migration Concern:	No

TOSCO CORPORATION STATION #31004 / 1X AIRPORT UNOCAL / CONOCO PHILLIIPS #255866 / AIRPORT FIVE STAR / JAY TAAT & BANOO TAAT DBA. AIRPORT 76 INC. / SERVICE STATION 5866 / AIRPORT UNION / 7-ELEVEN 39399	
Facility Address:	601-603 North Sepulveda Boulevard
Databases:	LUST, ELSEGUNDO UST, HAZNET, LA HMS, HIST MANIFEST, HHSS, FINDS/FRS
Distance:	Adjoining
Direction:	East of northern paved parking area at Project
Estimated Groundwater Flow:	Southwest
Relationship to Project:	Toward the Project
Release Reported:	Yes
Release Date:	December 4, 1990
Contaminant(s) of Concern:	Gasoline
Media Impacted:	Soil
Regulatory Status of Release:	Completed - Case Closed

Regulatory Status Date:	July 12, 1996
Summary of Other Available Documentation:	Not Applicable
Conclusion:	Based on the current regulatory status, length of time that has passed since closure was granted, and the lack of reported groundwater contamination, it is unlikely that this facility has impacted the Project. Therefore, this facility does not represent a recognized environmental condition.
Vapor Migration Concern:	Unlikely

7.1.3 VAPOR MIGRATION

Indoor air quality concerns are generally excluded from the scope of ASTM E1527-13 and this assessment. However, the migration of vapors caused by a release of hazardous substances or petroleum products to the environment can represent a recognized environmental condition in certain conditions.

For the purposes of this assessment, the potential for migrating vapors to represent a recognized environmental condition was evaluated using a limited screening method based on technical guidance documents from the US EPA and *ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. In addition, screening tools created by regulatory agencies may be used to evaluate the significance of a release with respect to the vapor migration and/or vapor intrusion potential. EMG's vapor migration screening is not a human health risk assessment and is not intended to comply with regulatory requirements that might exist for the evaluation of vapor migration.

Based on the review of regulatory database records in Section 7.1.1 and 7.1.2, no vapor migration concerns were identified.

7.2 LOCAL AGENCY RECORDS

The following additional environmental records were reviewed to supplement the standard environmental record sources discussed in Sections 7.1.1 and 7.1.2.

Reasonably ascertainable records for the Project may be reviewed for evidence of recognized environmental conditions and other environmental concerns such as underground storage tanks, significant hazardous materials use, the presence of septic systems, and/or the presence of wells.

BUILDING DEPARTMENT	
Name of Agency:	El Segundo Building Safety Department
Contact Name/Telephone:	Lili Sandoval, Deputy City Clerk I / 310.524.2306
Review Method:	Telephone interview
Records Date Back To:	Not provided
Summary of Records Reviewed:	Ms. Sandoval indicated there are no environmentally significant building permits on file for the Project
Environmentally Significant Information:	None

FIRE DEPARTMENT	
Name of Agency:	El Segundo Fire Department

FIRE DEPARTMENT	
Contact Name/Telephone:	James Carver / 310.524.2239 and Lili Sandoval / 310.524.2306
Review Method:	Written response to information request and telephone interview
Records Date Back To:	1985
Summary of Records Reviewed	According to Mr. Carver, the Project has been under construction since January 2015. The Project is inspected annually and there are no open fire code violations required to be completed before the Certificate of Occupancy can be issued. Mr. Carver also stated that he had no knowledge of USTs ever being located at the Project and there are no reports of spills or releases at the Project. According to Ms. Sandoval, Overton Moore & Associates was located at 540 North Sepulveda, not 541 North Sepulveda as indicated in regulatory database records. As such, the UST listing for Overton Moore & Associates is associated with an off-site property.
Environmentally Significant Information:	Refer to Section 7.1.2 for further discussion.

PLANNING/ZONING DEPARTMENT	
Name of Agency:	El Segundo Planning Department
Contact Name/Telephone:	Not applicable
Review Method:	Review of online records.
Records Date Back To:	Current
Current Zoning:	C-2: General Commercial; P: Parking
Historical Zoning:	Not reported
Environmentally Significant Information:	None

8.0 ASTM E1527 NON-SCOPE CONSIDERATIONS

The items discussed in this section are outside the scope of ASTM E1527-13. These are included at the discretion of the user based upon the scope of work.

8.1 ASBESTOS

In accordance with the scope of work, EMG performed a screening to document the presence of known and/or suspect asbestos containing materials (ACM) at the Project. This screening approach is not a comprehensive (i.e., AHERA-Style) asbestos survey, nor is it intended to fulfill the NESHAP requirements for demolition or renovation purposes. All materials listed in Appendix G of the United States Environmental Protection Agency (USEPA) publication Managing Asbestos in Place (the "Green Book") are considered suspect.

Some non-friable building products, such as sheet vinyl floor tile, vinyl floor tile, floor tile mastic, asbestos-cement board, and roofing materials can still be manufactured with asbestos and installed in the United States. However, U.S. manufacturers have largely excluded asbestos fibers from their building products since 1981. In addition to a visual assessment, EMG reviewed provided documentation to determine if asbestos has been previously documented at the Project.

SUSPECT ASBESTOS CONTAINING MATERIALS		
MATERIAL	FRIABLE	CONDITION
Roofing materials	No	Good
Vinyl composition tile	No	Good
Mastic	No	Good
Textured ceiling material	Yes	Good
Wallboard/joint compound	No	Good

PREVIOUSLY IDENTIFIED ASBESTOS CONTAINING MATERIALS			
MATERIAL	STILL PRESENT	FRIABLE	CONDITION
Ceiling tile	Yes	Yes	Good
Wallboard/joint compound	Yes	No	Good
Textured ceiling material	Yes	Yes	Good
Hard Pack Elbow To Fiberglass Pipe Insulation	Yes	No	Good
Mastic	Yes	No	Good
Vinyl composition tile	Yes	No	Good
Spray on Fireproofing	Yes	Yes	Good
Plaster	Yes	No	Good
Pipe Wrap to Blue and White Painted Pipe Insulation	Yes	No	Good

As-built/renovation-site plans, drawings, or specifications were not available for review at the Project or local agency offices visited for this assessment.

Non-friable ACM in the form of roofing materials, vinyl floor tile, wallboard/joint compound, pipe fittings, plaster, pipe wrap, and various mastics were previously identified at the Project in 2013. Friable ACM in the form of textured ceiling material, ceiling tile, and fireproofing were also previously identified at the Project in 2013. The non-friable and friable ACM were observed in generally good condition. Based on the scope of work, sampling of suspect asbestos containing materials was not performed.

Refer to Section 1.1 for further discussion.

8.2 RADON GAS

Radon originates from the natural (radioactive) breakdown of uranium in soil, rock and water and is the second leading cause of lung cancer in the United States. Radon can move up through the ground and into living spaces through cracks and other holes in the foundation. The USEPA has developed the EPA Map of Radon Zones to assist National, State, and local organizations in implementing radon-resistant building codes. This map assigns each county in the U.S. to one of three zones based on radon potential. The USEPA uses a continuous exposure level of 4.0 pCi/L (picoCuries per liter of air) as an action level at which additional action is recommended.

The USEPA Radon Zones are defined as:

- Zone 1 (Highest potential) - Average indoor radon screening level greater than 4 pCi/L
- Zone 2 (Moderate potential) - Average indoor radon screening level between 2 and 4 pCi/L.
- Zone 3 (Lowest potential) - Average indoor radon screening level less than 2 pCi/L.

For the purposes of this assessment, the radon zone and the use of the Project have been used to determine the level of risk associated with radon. However, the USEPA and the Surgeon General recommend testing all homes for radon, regardless of geographic location.

The property is located in USEPA Radon Zone 2.

Radon sampling was not performed based on the non-residential use of the Project and the Scope of Work. No further action or investigation is recommended regarding radon.

8.3 LEAD BASED PAINT

All paint applied prior to 1978 is considered suspect. The basis for this determination is taken from the Lead Paint Poisoning Act passed by the Congress of the United States that banned the use of lead paint starting January 1, 1978. This screening approach does not comply with Requirements for Disclosure of Known Lead-Based Paint and/or Lead-Based Paint Hazards in Housing. This approach does not constitute a pre-occupancy survey or the basis of attainment of "Lead Free" certification.

Considering the date of construction (1957-1978), there is a potential that the paint at the Project is lead-based. The painted surfaces were observed to be in generally good condition, with no chipping, peeling, or cracking paint observed. Furthermore, the Project is not a residential use and there is no regulatory requirement to sample suspected lead-based painted surfaces at this time. Therefore, no samples were collected. No further action or investigation is recommended regarding lead-based paint.

8.4 LEAD IN DRINKING WATER

Lead is commonly used in household plumbing materials and water service lines. Exposure to lead in drinking water above the USEPA action level can result in adverse health effects in children and adults. Lead is rarely found in source water, but enters tap water through corrosion of plumbing materials. Homes built before 1986 are more likely to have lead pipes, fixtures and solder. The most common problem is with brass or chrome-plated brass faucets and fixtures which can leach significant amounts of lead into the water. The USEPA action level for lead-in-drinking water is 15 parts per billion (ppb).

According to information from the local water utility, the water supplied to the Project is within federal, state, and local drinking water quality standards. No further action or investigation is recommended regarding lead in drinking water at the Project.

8.5 MOISTURE CONDITIONS

EMG performed a limited visual and olfactory assessment for evidence of moisture conditions in readily accessible interior areas of the Project. In addition, the Key Site Manager was interviewed regarding the presence of current and historical moisture conditions. This assessment was not designed to discover all areas which may be affected by moisture conditions. Rather, it is intended to provide an

indication of significant moisture conditions observed during the site visit. Moisture conditions may be present in areas not observed, such as pipe chases, HVAC systems, and behind enclosed walls and ceilings. De minimis moisture conditions, such as small, isolated, water stains on ceiling tiles, and mildew at bathtubs and sinks are considered to be routine maintenance issues and are not addressed in this Report.

EMG did not observe visual or olfactory indications of significant moisture conditions in readily accessible interior areas of the Project. Furthermore, the Key Site Manager did not report any significant current or historical moisture conditions at the Project.

8.6 WETLANDS

For regulatory purposes under the Clean Water Act, the term wetlands means "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas." A wetlands delineation is beyond the scope of this assessment. However, review of National Wetlands Inventory (NWI) data, provided by the United States Fish and Wildlife Service, indicated the following:

WETLANDS REVIEW	
PROJECT	ADJACENT PROPERTIES
Review of the NWI data did not identify any wetlands.	Review of the NWI data did not identify any wetlands.

No wetlands were identified. No further action or investigation is recommended regarding wetlands.

8.7 FLOOD ZONE

FEMA identifies flood hazards, assesses flood risks and partners with states and communities to provide accurate flood hazard and risk data to guide them to mitigation actions.Flood hazard mapping is the basis for the National Flood Insurance Program (NFIP) and flood insurance requirements. FEMA maintains and updates data through Flood Insurance Rate Maps (FIRMs) and risk assessments. FIRMs include statistical information such as data for river flow, storm tides, hydrologic/hydraulic analyses and rainfall and topographic surveys. Review of the FIRM indicated the following:

FLOOD ZONE MAP REVIEW	
MAP DATE	PROJECT FLOOD ZONE
September 26, 2008	The Project is located in Zone X (unshaded), minimal risk areas outside the one percent and 0.2 percent annual chance floodplains. No base flood elevations or base flood depths are shown within these zones.

The flood zone designation is provided for informational purposes only. A determination of the need for flood insurance is beyond the scope of this assessment.

9.0 LIMITATIONS, KEY TERMS, AND REFERENCES

9.1 LIMITATIONS

The opinions EMG expresses in this report were formed utilizing the degree of skill and care ordinarily exercised by any prudent Environmental Professional in the same community under similar circumstances. EMG assumes no responsibility or liability for the accuracy of information contained within this report that has been obtained from the Client or the Client's representatives, from other interested parties, or from the public domain. The conclusions presented represent EMG's professional judgment based on information obtained during the course of this assignment.

Factual information regarding operations, conditions, and test data provided by the Client or the Client's representative has been assumed to be correct and complete. The conclusions presented within this report are based on the data provided, observations made, and conditions that existed specifically on the date of the assessment.

EMG's ESA cannot wholly eliminate the uncertainty regarding the presence of recognized environmental conditions and environmental business risk. The report is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the Project. The report is limited in budget and scope. The nature of subsurface soil and ground water at the Project cannot be confirmed, given the limited budget and scope of this ESA. The report is not and should not be considered a warranty or guarantee about the presence or absence of environmental contaminants which might affect the Project. It should be understood that EMG's suggested remedy may be determined under time constraints or may be formed without the aid of engineering calculations, testing, exploratory probing, the removal of materials, or design. Furthermore, there may be other alternate or more appropriate schemes or methods to remedy the noted environmental conditions.

9.2 REFERENCES

References are listed below. Additional references may be present within the applicable report sections.

Physical Setting

7 1/2 minute USGS Topographic Quadrangle (included in Appendix C)

1:2,500,000 scale Geology of the Conterminous United States map published by the USGS and dated 1974

Natural Resources Conservation Service (NRCS) Web Soil Survey

Regulatory Records

Database Report, Ecolog ERIS Ltd. (included in Appendix H)

Key Site Manager Interview

Key Site Manager Questionnaire, (included in Appendix D)

Historical References

STANDARD HISTORICAL SOURCES		
DATA TYPE	SOURCE	YEARS COVERED
Aerial Photographs:	ERIS	1928, 1938, 1952, 1963, 1972, 1980, 1985, 1994, 2005, 2010, 2012, 2014, 2016
Fire Insurance (Sanborn) Maps:	ERIS	No coverage

STANDARD HISTORICAL SOURCES		
DATA TYPE	SOURCE	YEARS COVERED
USGS Topographic Maps:	USGS	1964, 2012, 2015
Local Street Directories:	EDR	1946, 1954, 1960, 1962, 1964, 1967, 1970, 1971, 1975, 1980, 1990, 1995, 2000, 2007, 2012
Building Department Records:	El Segundo Building Safety Department	Pending response from agency
Fire Department Records:	El Segundo Fire Department	Pending response from agency
Zoning/Land Use Records:	El Segundo Planning Department	Current
Property Tax Files and Land Title Records:	Los Angeles County Assessor	Current
Key Site Manager Interview:	Pre-Survey Questionnaire	1999 - Current
Oil and Gas Well Maps:	California Department of Conservation	2002 - Current
Other Historical Sources:	Previous Phase I assessment and asbestos survey	2013

9.3 KEY TERMS

Business environmental risk - A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations. For the purposes of this assessment, a significant business environmental risk is both included in the agreed upon scope of work and requires further action at this time.

Controlled recognized environmental condition - A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Data gap - The lack of or inability to obtain information required by ASTM E 1527-13 despite good faith efforts is considered a data gap. A data gap is considered significant if it affects the ability of the environmental professional to identify recognized environmental conditions.

De minimis condition - A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

Environmental Professional - A person meeting the education, training, and experience requirements set forth in 40 CFR 312.10(b).

Historical recognized environmental condition - A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g. property use restriction, AULS, institutional controls, or engineering controls), at the time the Phase I ESA is conducted (e.g., if there has been a change in the regulatory criteria). If the EP considers this past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusion section of the report as a REC.

Material threat - A physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment.

Practically reviewable - Information that is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data.

Release - Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), with certain exclusions as defined in 42 U.S.C. 9601 (22).

Reasonably ascertainable - Information that is publicly available, obtainable from its source within reasonable time and cost constraints, and practically reviewable.

Recognized environmental condition - The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.

Standard environmental record sources - Environmental records contained in various regulatory databases, with search distances defined by ASTM E1527-13, unless otherwise specified by client in the scope of work.

Standard historical sources - Reasonably ascertainable records, including aerial photographs, fire insurance maps, property tax files, recorded land title records, USGS topographic maps, local street directories, building department records, and zoning/land use records.

APPENDIX A:
PHOTOGRAPHS



PHOTO #1	NORTHEAST ELEVATION FAIRFIELD SUITES



PHOTO #2	NORTHERN PARKING AREA



PHOTO #3	EAST ELEVATION FAIRFIELD SUITES



PHOTO #4	SOUTH ELEVATION ALOFT



PHOTO #5	SOUTH PARKING AREA



PHOTO #6	WEST ELEVATION ALOFT



PHOTO #7	COURTYARD



PHOTO #8	POOL AREA OVERVIEW



PHOTO #9	ROOF

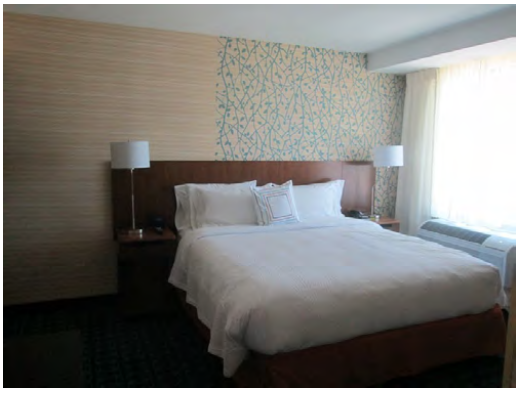


PHOTO #10	GUEST ROOM

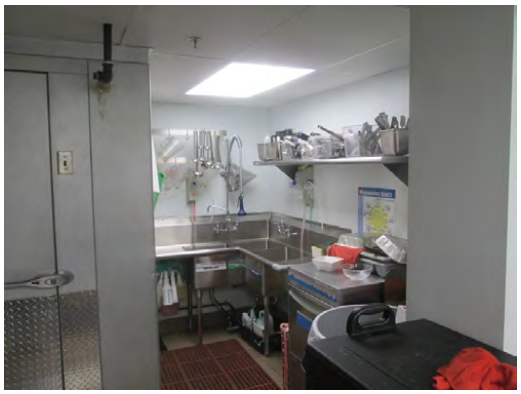


PHOTO #11	KITCHEN



PHOTO #12	DINING AREA



PHOTO #13	*BALLROOM*



PHOTO #14	*DIESEL-FIRED EMERGENCY GENERATOR*



PHOTO #15	*DE MINIMIS STAINING*



PHOTO #16	*MAINTENANCE/JANITORIAL SUPPLIES*



PHOTO #17	*MAINTENANCE/JANITORIAL SUPPLIES*



PHOTO #18	*MAINTENANCE/JANITORIAL SUPPLIES*



PHOTO #19	MAINTENANCE/JANITORIAL SUPPLIES



PHOTO #20	MAINTENANCE/JANITORIAL SUPPLIES



PHOTO #21	MAINTENANCE/JANITORIAL SUPPLIES



PHOTO #22	MAINTENANCE/JANITORIAL SUPPLIES



PHOTO #23	MAINTENANCE/JANITORIAL SUPPLIES



PHOTO #24	ELECTRICAL TRANSFORMER



PHOTO #25	ELECTRICAL TRANSFORMER ROOM (NO ACCESS)



PHOTO #26	TRACTION ELEVATOR EQUIPMENT IN ALOFT



PHOTO #27	HYDRAULIC ELEVATOR EQUIPMENT IN FOOD AND BEVERAGE BUILDING



PHOTO #28	HYDRAULIC ELEVATOR EQUIPMENT WITH STAINING AND ABSORBENT MATERIALS IN FOOD AND BEVERAGE BUILDING



PHOTO #29	HYDRAULIC ELEVATOR EQUIPMENT WITH STAINING IN FOOD AND BEVERAGE BUILDING



PHOTO #30	TRASH DUMPSTERS



PHOTO #31	MEDICAL WASTE STORAGE



PHOTO #32	GREASE TRAP IN FAIRFIELD SUITES



PHOTO #33	GREASE TRAP FAIRFIELD SUITES



PHOTO #34	GREASE TRAP FAIRFIELD SUITES



PHOTO #35	USED OIL



PHOTO #36	FLOOR DRAIN FOR HVAC CONDENSATE



PHOTO #37	ROOF AND HVAC EQUIPMENT



PHOTO #38	ROOF AND HVAC EQUIPMENT



PHOTO #39	NATURAL GAS-FIRED BOILERS



PHOTO #40	PTAC UNIT



PHOTO #41	NORTH ADJACENT, RESIDENCES



PHOTO #42	NORTHEAST ADJACENT, RESTAURANT



PHOTO #43	*ADJACENT GASOLINE SERVICE STATION*



PHOTO #44	*WEST ADJACENT, MEDICAL BUILDING AND SHOPPING CENTER*



PHOTO #45	*EAST ADJACENT, RESIDENCES*



PHOTO #46	*WEST ADJACENT, RESIDENCES*



PHOTO #47	*SOUTHWEST ADJACENT, COMMERCIAL BUILDINGS*



PHOTO #48	*SOUTH ADJACENT, WALGREENS*

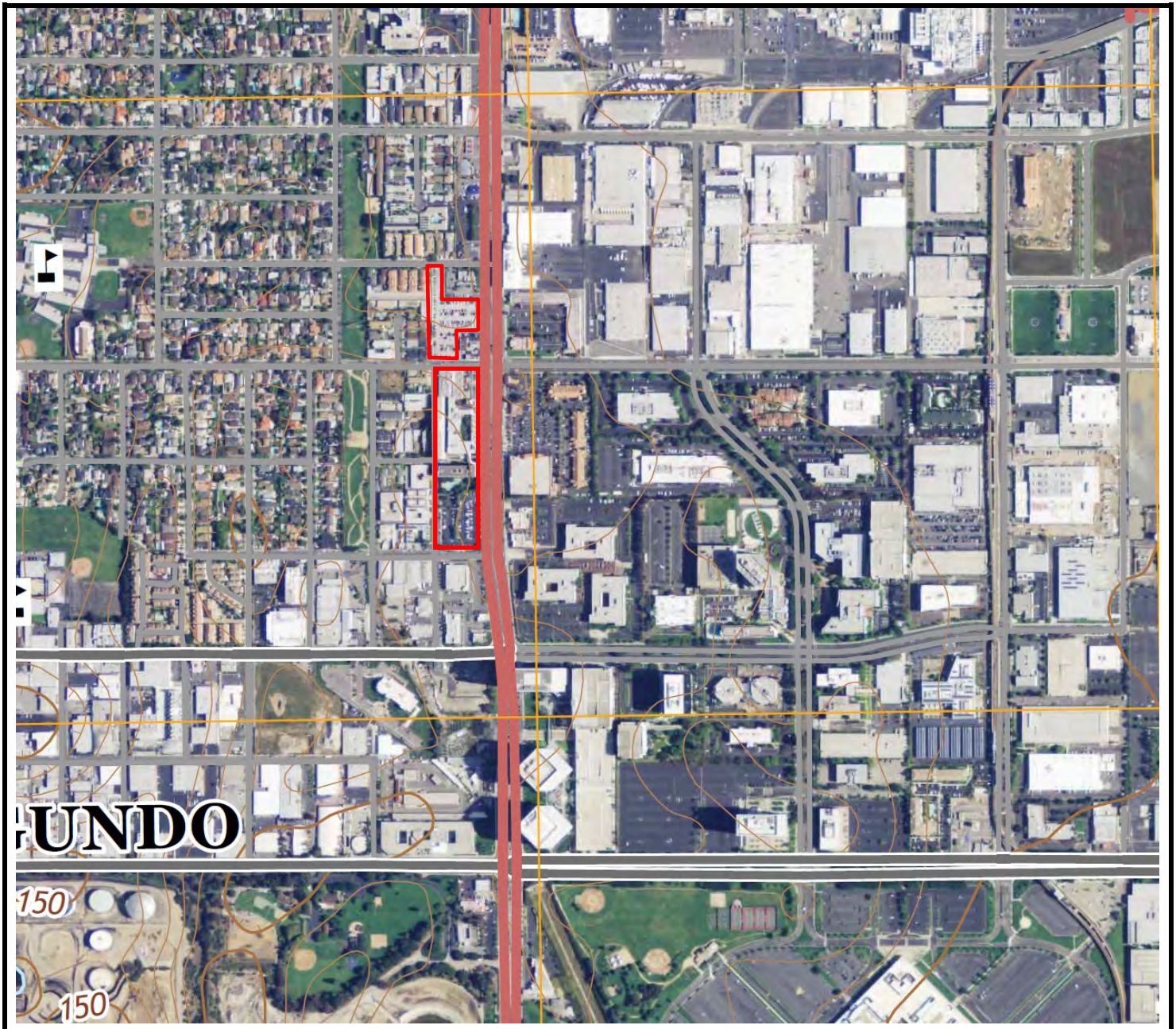
APPENDIX B:
FIELD SKETCH



Field Sketch

APPENDIX C:
MAPS AND AERIAL PHOTOGRAPHS

TOPOGRAPHIC MAP



Source:

USGS Topographic Quadrangle:
Venice, California

Project Boundary

Date: 2015

The north arrow indicator is an approximation of 0° North.

Project Number:

124963.17R000-001.135

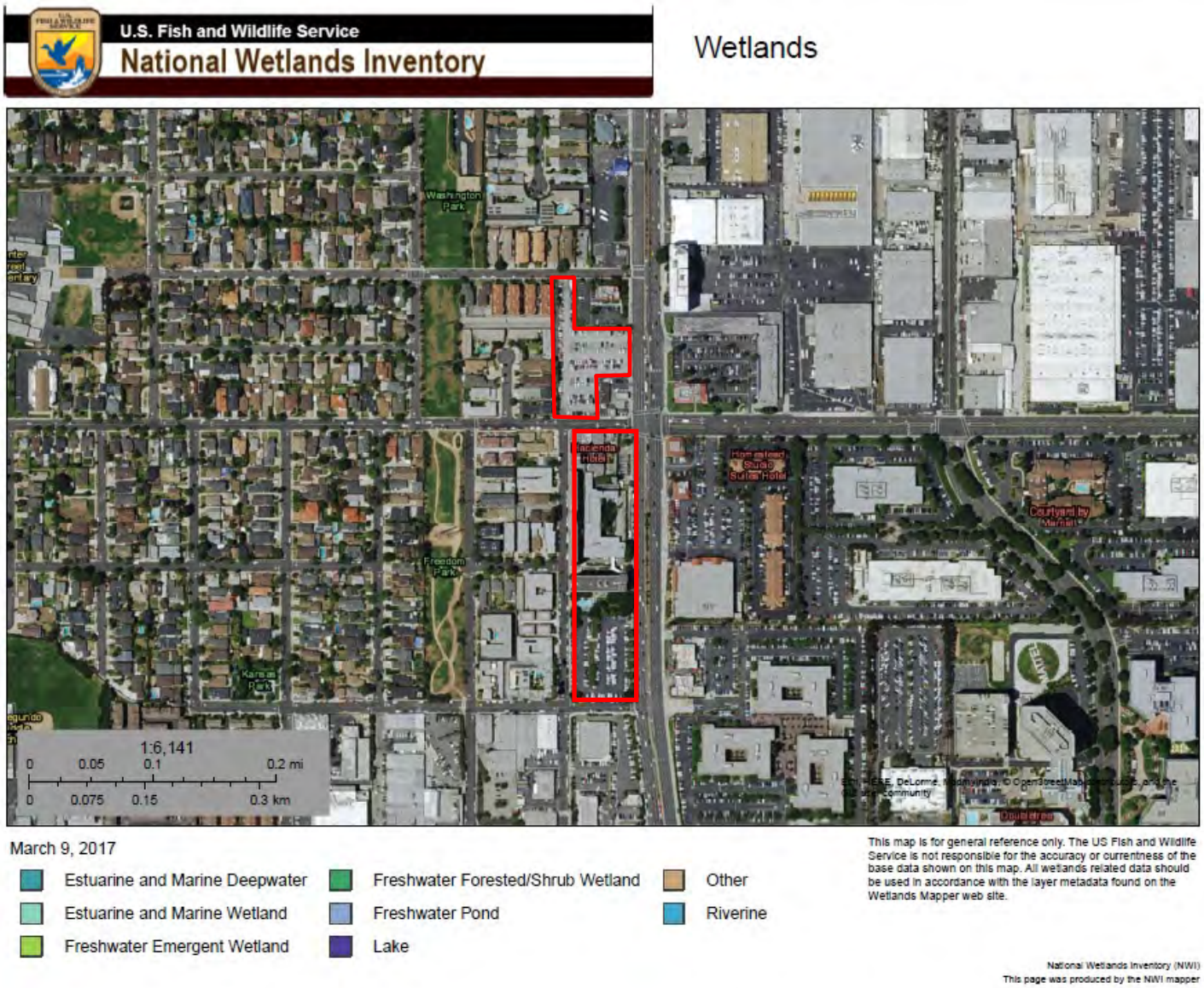
Project Name:

Fairfield Inn & Suites, Aloft Hotel & El Segundo LAX

On-Site Date:

March 6, 2017

WETLANDS MAP



Source:

U.S. Fish and Wildlife Service

– – Project Boundary

Date: 2017

The north arrow indicator is an approximation of 0° North.

Project Number:

124963.17R000-001.135

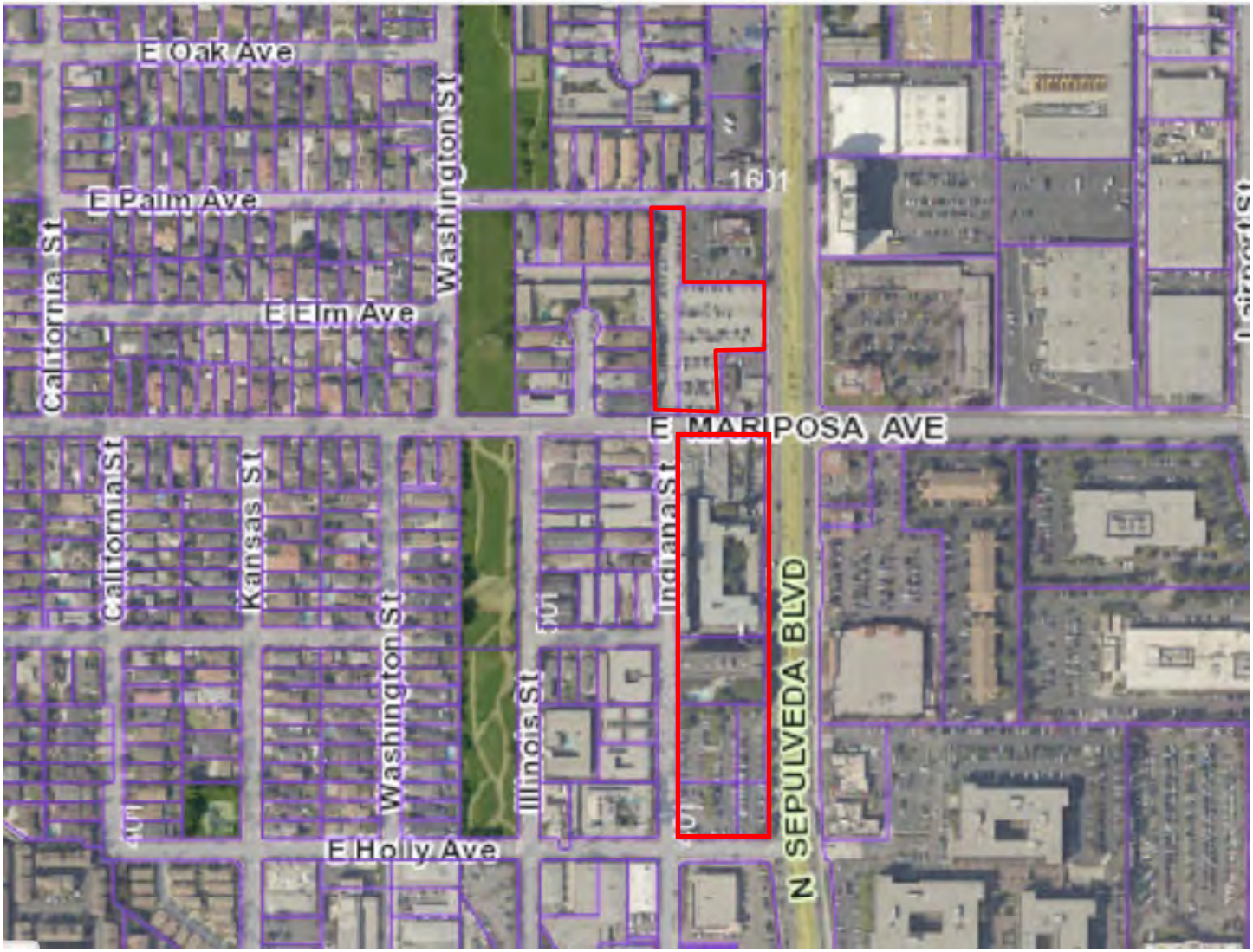
Project Name:

Fairfield Inn & Suites, Aloft Hotel & El Segundo LAX

On-Site Date:

March 6, 2017

TAX MAP



Source:

Los Angeles County Assessor

– – Project Boundary

The north arrow indicator is an approximation of 0° North.

Project Number:

124963.17R000-001.135

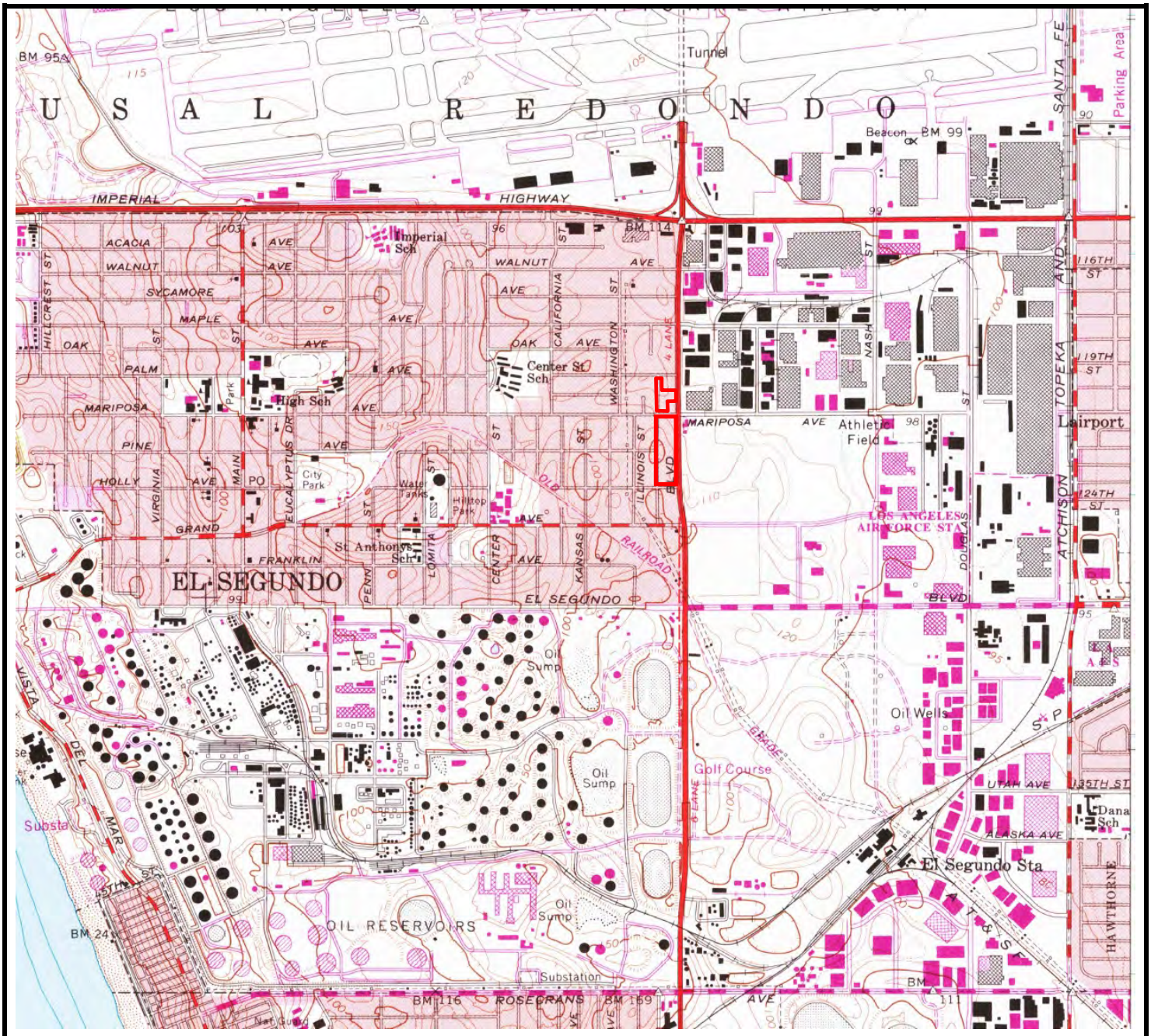
Project Name:

Fairfield Inn & Suites, Aloft Hotel & El Segundo LAX

On-Site Date:

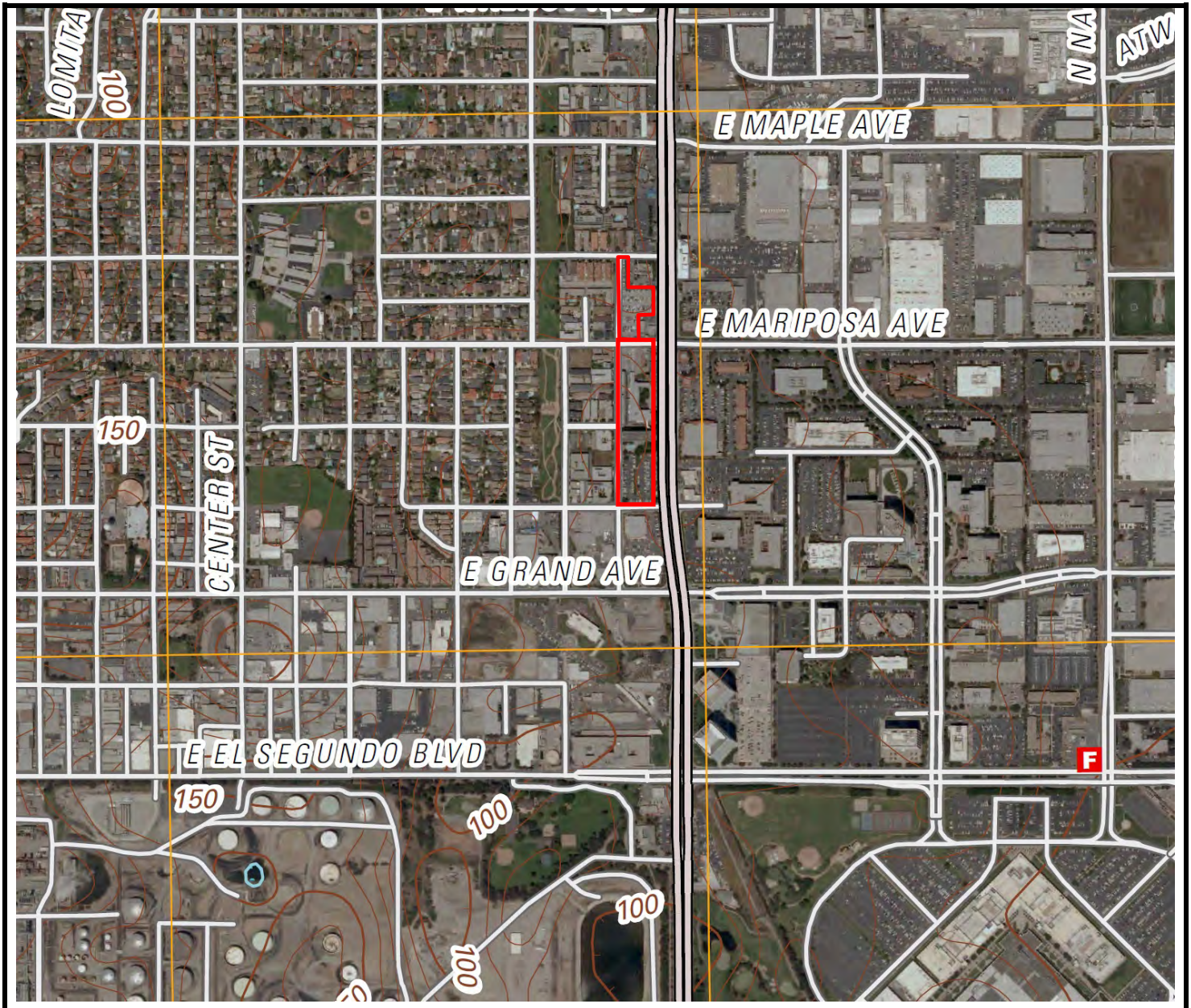
March 6, 2017

HISTORIC TOPOGRAPHIC MAP



emg	**Source:** USGS **Project Boundary** **Date: 1964**	**Project Number:** 124963.17R000-001.135
N	**The north arrow indicator is an approximation of 0° North.**	**Project Name:** Fairfield Inn & Suites, Aloft Hotel & El Segundo LAX
		On-Site Date: March 6, 2017

HISTORIC TOPOGRAPHIC MAP



Source:

USGS

Project Boundary

Date: 2012

The north arrow indicator is an approximation of 0° North.

Project Number:

124963.17R000-001.135

Project Name:

Fairfield Inn & Suites, Aloft Hotel & El Segundo LAX

On-Site Date:

March 6, 2017



Date: **1928**
Source: **FAIRCHILD**
Scale: **1" to 500'**
Comments: *BEST COPY AVAILABLE*

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3967

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engineering | environmental | capital planning | project management

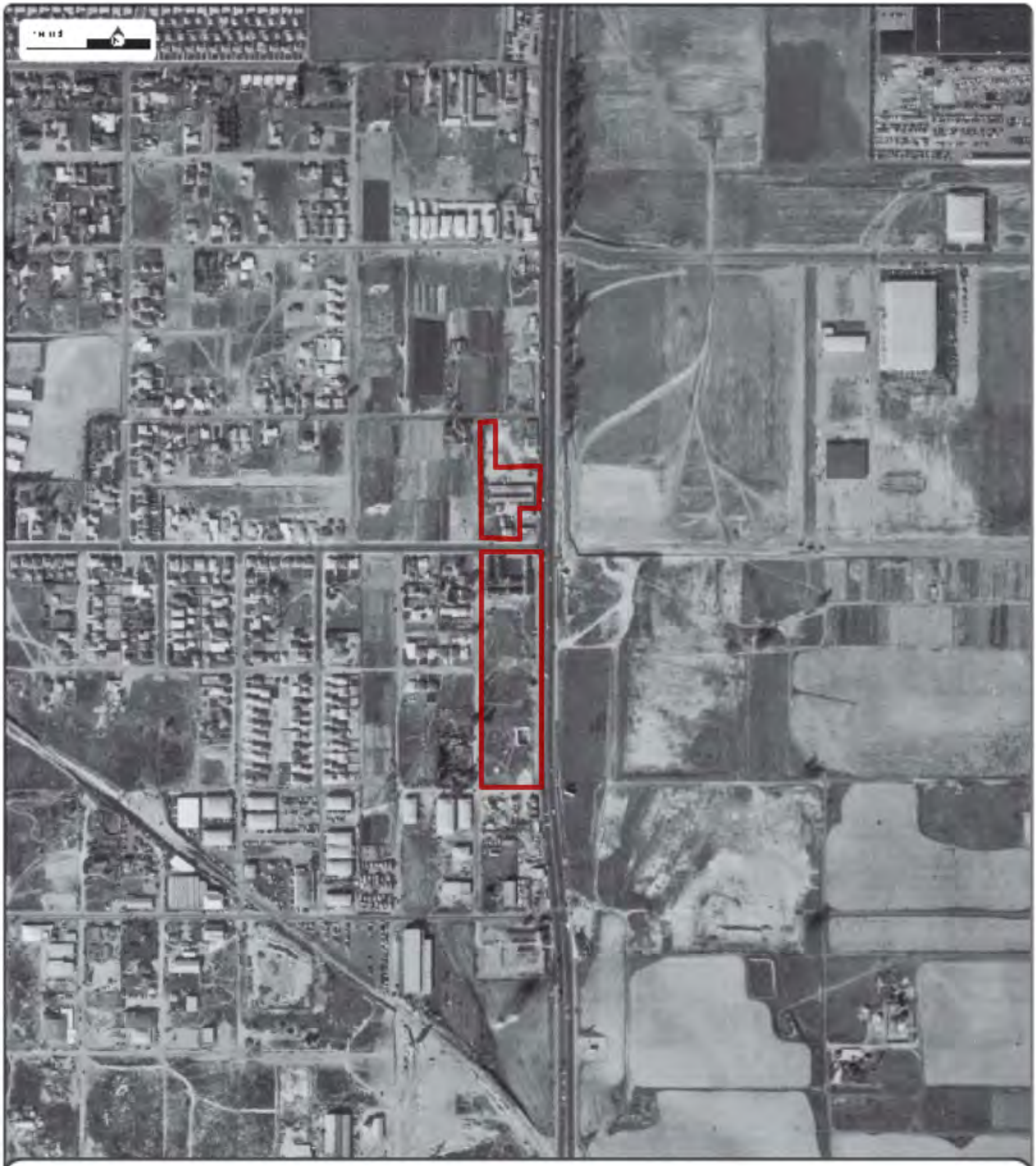


Date: **1938**
Source: **ASCS**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987

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Date: **1952**
Source: **ASCS**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3967

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Date: **1963**
Source: **USGS**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987

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Date: **1972**
Source: **USGS**
Scale: **1" to 500'**
Comments:

N

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Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987



Date: **1980**
Source: **USGS**
Scale: **1" to 500'**
Comments:

N

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Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987



Date: **1985**
Source: **NHAP**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3967

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Date: **1994**
Source: **USGS**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3967

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Date: **2005**
Source: **NAIP**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3967

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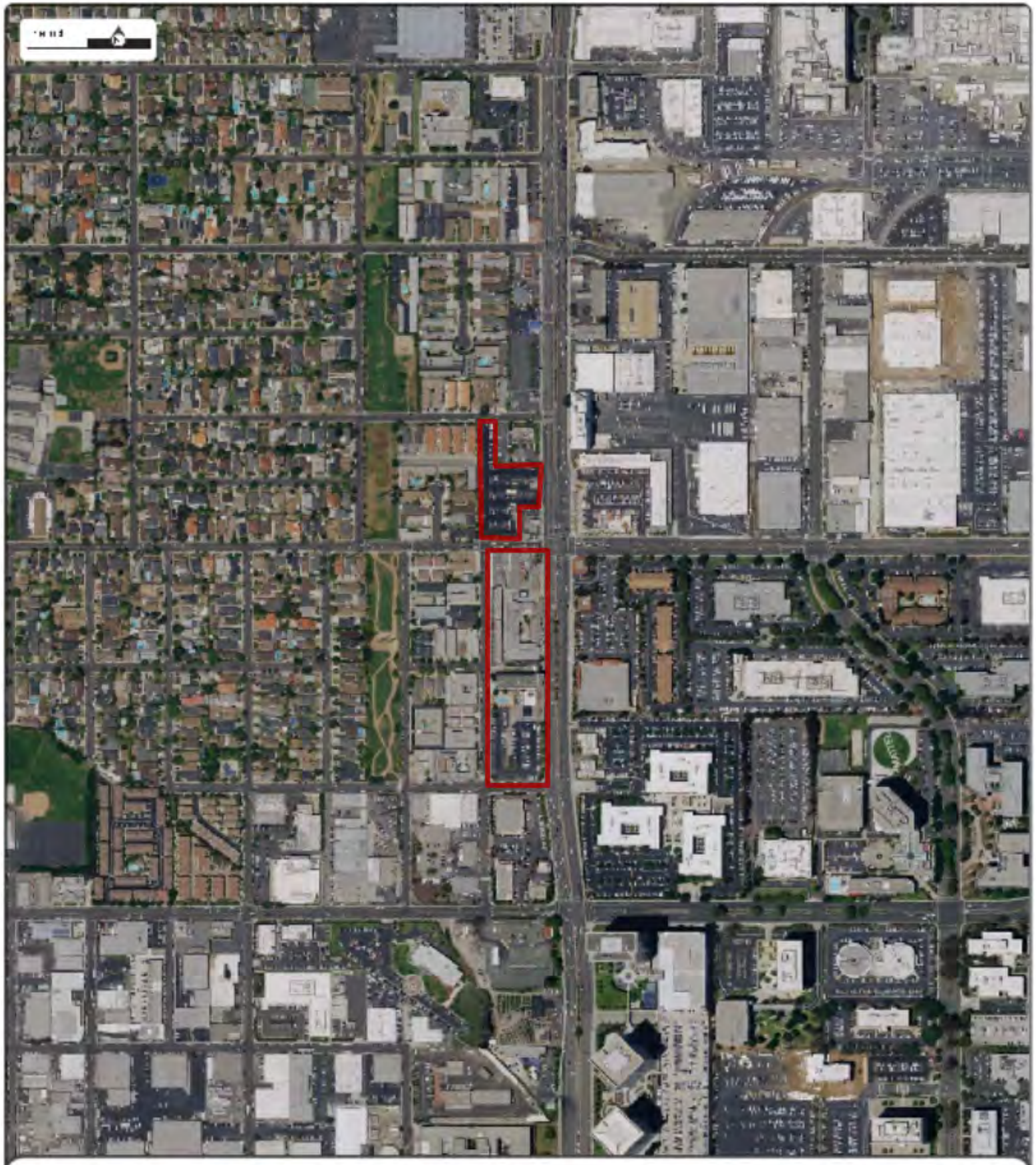


Date: **2010**
Source: **NAIP**
Scale: **1" to 500'**
Comments:

N

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Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987



Date: **2016**
Source: **NAIP**
Scale: **1" to 500'**
Comments:

N

Subject: 475 & 525 North Sepulveda Boulevard Los Angeles CA
Approx Center: 33.92224 / -118.3987

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APPENDIX D:
QUESTIONNAIRES

PHASE I: KEY SITE MANAGER QUESTIONNAIRE

Name of person completing questionnaire:	**Mr. Eric Licas**
Association with property:	**Director of Engineering**
Length of association with property:	**18 years**
Are you a representative of the Owner?:	**No**
Phone Number:	**818.257.3858**
Property Name:	**Fairfield Inn, Aloft Hotel & El Segundo LAX**
EMG Project Number:	**124963.17R000-001.135**
Signature:	**Date:**

Directions: Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any **yes or unknown responses** should be provided in the "Comments" column.

	QUESTION	RESPONSE			COMMENTS
		Y	N	Unk	
1	Are the Property or any adjoining properties currently or previously in industrial use?		✓		
2	Have the Property or adjoining properties currently or previously been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	✓			Adjacent gas station
3	Are there currently or previously any automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Property?	✓			Diesel fuel for generator
4	Are there currently or have there been previously any industrial drums (typically 55 gallon) or sacks of chemicals located on the Property?		✓		
5	Are there currently or previous any groundwater monitoring wells or other groundwater wells (i.e., potable drinking water wells) located on the Property?		✓		
6	Are there currently or previously any pits, ponds, or lagoons located on the Property in connection with waste treatment or waste disposal?		✓		
7	Are there any significant areas of stained soil on the Property (currently or previously)?		✓		
8	Are there currently or previously any storage tanks (above or underground) located on the Property? If so, please indicate the material stored and if the tank is registered.	✓			AST for generator
9	Are there currently or previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the Property or adjacent to any structure located on the Property?		✓		

	QUESTION	RESPONSE			COMMENTS
		Y	N	Unk	
10	Are there currently or previously any flooring, drains, or walls located at the Property that are stained by substances other than water or are emitting foul odors?		✓		
11	If the Property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system? Has the well been designated as contaminated by any government environmental/health agency?		✓		
12	Have you been informed of the past existence of hazardous substances or petroleum products with respect to the Property or any facility located on the Property?		✓		
13	Have there been any environmental site assessments of the Property that indicated the presence of hazardous substances or petroleum products on, or contamination of, the Property or recommended further assessment of the Property?		✓		
14	Does the Property discharge waste water on or adjacent to the Property, other than storm water, into a storm water sewer system?		✓		
15	Have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials been dumped above grade, buried, and/or burned on the Property?		✓		
16	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?		✓		
17	Is there now or has there ever been any asbestos-containing materials (ACM), in any application, on the Property?	✓			Some removed during renovations
18	Has there ever been any asbestos-containing materials testing conducted on the Property?	✓			
19	Is there an Asbestos Operations and Maintenance (O&M) program in place at the Property?		✓		
20	Is there now or has there ever been any lead-based paint (LBP) applications on the Property?		✓		
21	Has there ever been lead-based paint testing conducted on the Property?		✓		
22	Is there a Lead Paint Operations and Maintenance (O&M) Program in place at the Property?		✓		
23	Has the water at the Property ever been tested for lead?		✓		
24	Has radon testing ever been conducted at the Property?		✓		
25	Has any part of the Property ever contained visible mold growth?		✓		
26	Has there ever been any sort of Indoor Air Quality (IAQ) or mold testing conducted in the building(s)?		✓		
27	Is there a Mold Operations and Maintenance (O&M) program in place at the Property?		✓		

	QUESTION	RESPONSE			COMMENTS
		Y	N	Unk	
28	Are there any other Operations and Maintenance (O&M) programs in place that we should be made aware of? If so, please provide details.		✓		
29	Has fill dirt been brought onto the Property which originated from a contaminated site or is of an unknown origin?		✓		
30	Is the Property or any portion of the Property located or involved in any environmentally sensitive areas (i.e., wetlands, coastal barrier resource areas, coastal barrier improvement act areas, flood plains, endangered species)?		✓		
31	Have you been informed of the past existence of environmental violations with respect to the Property or any facility located on the Property?		✓		
32	Are there any environmental liens or governmental notification relating to past or current violations of environmental laws with respect to the Property or any facility located on the Property?		✓		
33	Are you aware of any pending, threatened, or past litigation relevant to hazardous substances of petroleum products in, on or from the Property?		✓		
34	Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property?		✓		
35	Are you aware of any notices from any governmental entity regarding any possible violation or environmental laws or possible liability relating to hazardous substances or petroleum products?		✓		

Summarize historical Property use (when was the Property developed with the current improvements, what modifications have taken place, what was the Property used for prior to its current use)	Originally constructed as a hotel

On the day of the site visit, provide EMG's Field Observer access to all of the available documents listed below.

- Previous Environmental Site Assessment and Compliance Audit reports
- Site plans, ALTA surveys, etc.
- Asbestos, Lead Based Paint, Mold Operations and Maintenance Programs (O&Ms)
- Environmental permits, including registrations for aboveground and underground storage tanks and registrations for underground injection systems
- Material Safety Data Sheets
- Hazardous waste generator notices or reports
- Community Right-to-Know Plan, Risk Assessments, Safety plans, SPCC plans, FRP Plans, etc.
- Reports regarding hydrogeological conditions on the Property or adjoining properties
- Notices from government agencies regarding past or current violations of environmental laws
- Environmental liens and recorded Activity and Use Limitations
- Geotechnical surveys

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ASTM E1527-13 USER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

EMG has been retained to conduct a Phase I Environmental Site Assessment (ESA) on your behalf as contracted in EMG Project #112427.15P. The Phase I ESA will involve site observations, interviews, and a review of available documentation. To ensure the success of the assessment, and in accordance with the ASTM E1527-13 Scope of Work, we are required to ask the following questions to the User of the report seeking to fulfill the User Requirements of the Standard. Please complete and return this questionnaire to Courtney Bartlett via email at cbartlett@emgcorp.com or via fax at 410-785-6220 (within two days of receipt).

Date: _____

Company name: _____

Property Name/Street Address: _____

Property City/State/Zip: _____

Name of person completing questionnaire: _____ **Phone Number:** _____

Role/Title: _____ **Fax Number:** _____

Length of association with property: _____ **E-mail address:** _____

Please check one: **User:** ☐ **User Representative:** ☐

Signature: _____

Directions: Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any yes or unknown responses should be provided in the "Comments" column. Note: *U* indicates *"Unknown", NR* indicates *"No Response"* and *"N/A"* indicates not applicable.

	QUESTION	RESPONSE				COMMENTS
		Y	N	U	NR	
1	Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☐	☐	☐	
2	Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?	☐	☐	☐	☐	
3	Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☐	☐	☐	

	QUESTION		RESPONSE				COMMENTS
			Y	N	U	NR	
4	Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?		☐	☐	☐	☐	
5	Are you aware of any Activity and Use Limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?		☐	☐	☐	☐	
6	As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?		☐	☐	☐	☐	
7	Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?		☐	☐	☐	☐	
8	Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user		☐	☐	☐	☐	
	8 (a)	Do you know the past uses of the property?	☐	☐	☐	☐	
	8 (b)	Do you know of specific chemicals that are present or once were present at the property?	☐	☐	☐	☐	
	8 (c)	Do you know of spills or other chemical releases that have taken place at the property?	☐	☐	☐	☐	
	8 (d)	Do you know of any environmental cleanups that have taken place at the property?	☐	☐	☐	☐	
9	As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?		☐	☐	☐	☐	

If you have access to any of the following helpful documents, please indicate them below and then send them to EMG via standard mail or e-mail along with this questionnaire. Mailing address: 10461 Mill Run Circle, Suite 1100, Owings Mills, MD 21117

Helpful Documents to be forwarded EMG:

☐ Environmental site assessment reports (i.e., Phase I, Phase II, tank testing results, radon, lead paint, or asbestos testing, etc.)

☐ Environmental compliance audit reports; risk assessments; and recorded Activity and Use Limitations (AULs)

☐ Environmental permits (i.e., solid waste disposal, hazardous waste disposal, wastewater, NPDES, underground injection, etc.)

☐ Registrations for underground storage tanks (USTs) and aboveground storage tanks (ASTs)

- ☐ Registrations for underground injection systems
- ☐ Material safety data sheets
- ☐ Community right-to-know plan
- ☐ Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans, etc
- ☐ Reports regarding hydrogeological or geotechnical conditions on the property and surrounding area
- ☐ Notices/correspondence from any agency relating to past/current violations of environmental laws, or liens encumbering the property
- ☐ Hazardous waste generator notices or reports
- ☐ Other:

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ASTM E1527-13 OWNER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

EMG has been retained to conduct a Phase I Environmental Site Assessment (ESA) on your property as contracted in EMG Project #112427.15P. The Phase I ESA will involve site observations, interviews, and a review of available documentation. To ensure the success of the assessment, and in accordance with the ASTM E1527-13 Scope of Work, we are required to ask the following questions to the Owner or Owner representative. Please complete and return this questionnaire to Courtney Bartlett via email at cbartlett@emgcorp.com or via fax at 410-785-6220 (within two days of receipt).

Date: _____

Company name: _____

Property Name/Street Address: _____

Property City/State/Zip: _____

Name of person completing questionnaire: _____ **Phone Number:** _____

Role/Title: _____ **Fax Number:** _____

Length of association with property: _____ **E-mail address:** _____

Please check one: **Owner:** ☐ **Owner Representative:** ☐

Signature: _____

Directions: Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any yes or unknown responses should be provided in the "Comments" column. Note: *U* indicates *"Unknown", NR* indicates *"No Response"* and *"N/A"* indicates not applicable.

	QUESTION	RESPONSE				COMMENTS
		Y	N	U	NR	
1	Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☐	☐	☐	
2	Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?	☐	☐	☐	☐	
3	Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☐	☐	☐	

Interviews with Owners and Occupants: Section 10 of the ASTM E1527-13 Standard recommends that in addition to the three specific questions above, the Environmental Professional shall attempt to interview owners, operators, and occupants of the property to obtain information indicating recognized environmental conditions in connection with the property. As such, EMG is providing a Pre-Survey Questionnaire under separate cover to the Key Site Manager or other site representative as designated by either the current owner or the intended User of the assessment data.

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If you have access to any of the following helpful documents, please indicate them below and then send them to EMG via standard mail or e-mail along with this questionnaire. Mailing address: 10461 Mill Run Circle, Suite 1100, Owings Mills, MD 21117

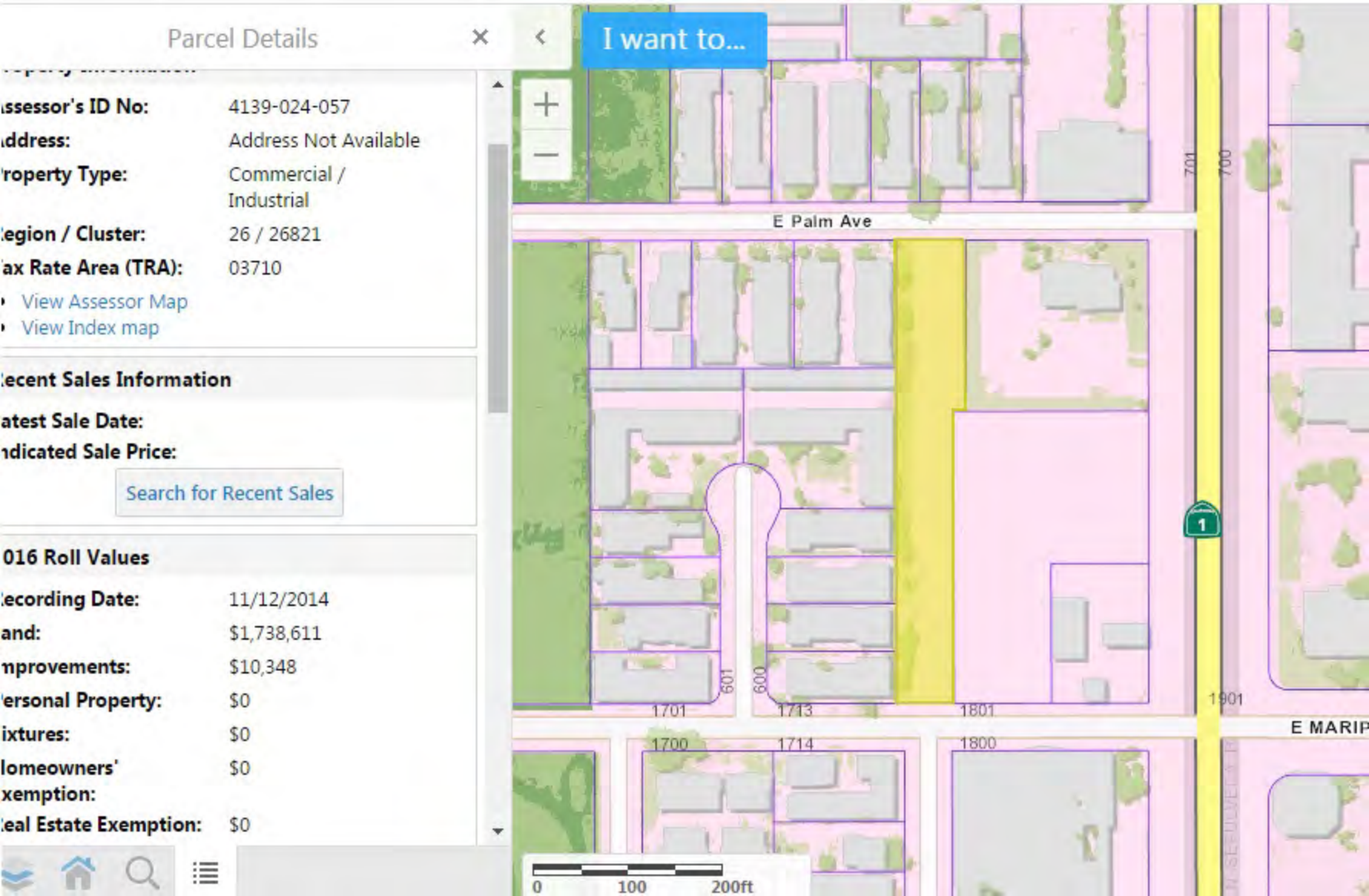
Helpful Documents to be forwarded EMG:

- ☐ Environmental site assessment reports (i.e., Phase I, Phase II, tank testing results, radon, lead paint, or asbestos testing, etc.)
- ☐ Environmental compliance audit reports; risk assessments; and recorded Activity and Use Limitations (AULs)
- ☐ Environmental permits (i.e., solid waste disposal, hazardous waste disposal, wastewater, NPDES, underground injection, etc.)
- ☐ Registrations for underground storage tanks (USTs) and aboveground storage tanks (ASTs)
- ☐ Registrations for underground injection systems
- ☐ Material safety data sheets
- ☐ Community right-to-know plan
- ☐ Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans, etc
- ☐ Reports regarding hydrogeological or geotechnical conditions on the property and surrounding area
- ☐ Notices/correspondence from any agency relating to past/current violations of environmental laws, or liens encumbering the property
- ☐ Hazardous waste generator notices or reports
- ☐ Other:

APPENDIX E:
LABORATORY ANALYTICAL RESULTS

NO DOCUMENTS ASSOCIATED WITH THIS APPENDIX

APPENDIX F:
SUPPORTING DOCUMENTATION


Parcel Details
I want to...
ssessor's ID No: 4139-024-057
ddress: Address Not Available
roperty Type: Commercial / Industrial
egion / Cluster: 26 / 26821
ax Rate Area (TRA): 03710
View Assessor Map
View Index map
ecent Sales Information
atest Sale Date:
ndicated Sale Price:
Search for Recent Sales
016 Roll Values
ecording Date: 11/12/2014
and: $1,738,611
nprovements: $10,348
ersonal Property: $0
ixtures: $0
lomeowners' xemption: $0
eal Estate Exemption: $0
E Palm Ave
701
700
1
1701
601
600
1713
1801
1901
E MARIP
1700
1714
1800
0
100
200ft

Assessor's ID No: 4139-024-058

Address: Address Not Available

Property Type: Commercial / Industrial

Region / Cluster: 26 / 26821

Tax Rate Area (TRA): 03710

- View Assessor Map
- View Index map

Recent Sales Information

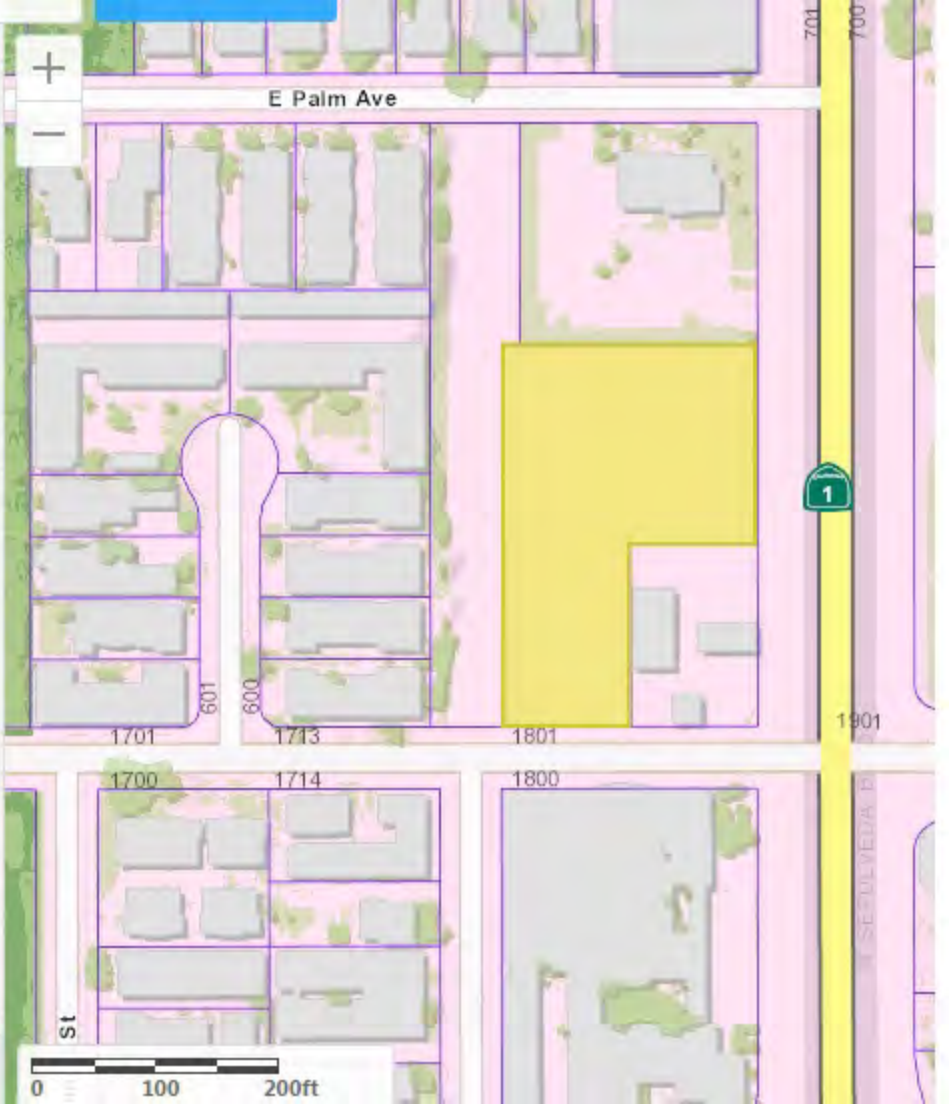
Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	11/12/2014
Land:	$3,301,289
Improvements:	$10,348
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0



Parcel Details

I want to...

Assessor's ID No: 4139-025-073
Address: Address Not Available
Property Type: Vacant Land
Region / Cluster: 28 / 28712
Tax Rate Area (TRA): 03710

- View Assessor Map
- View Index map

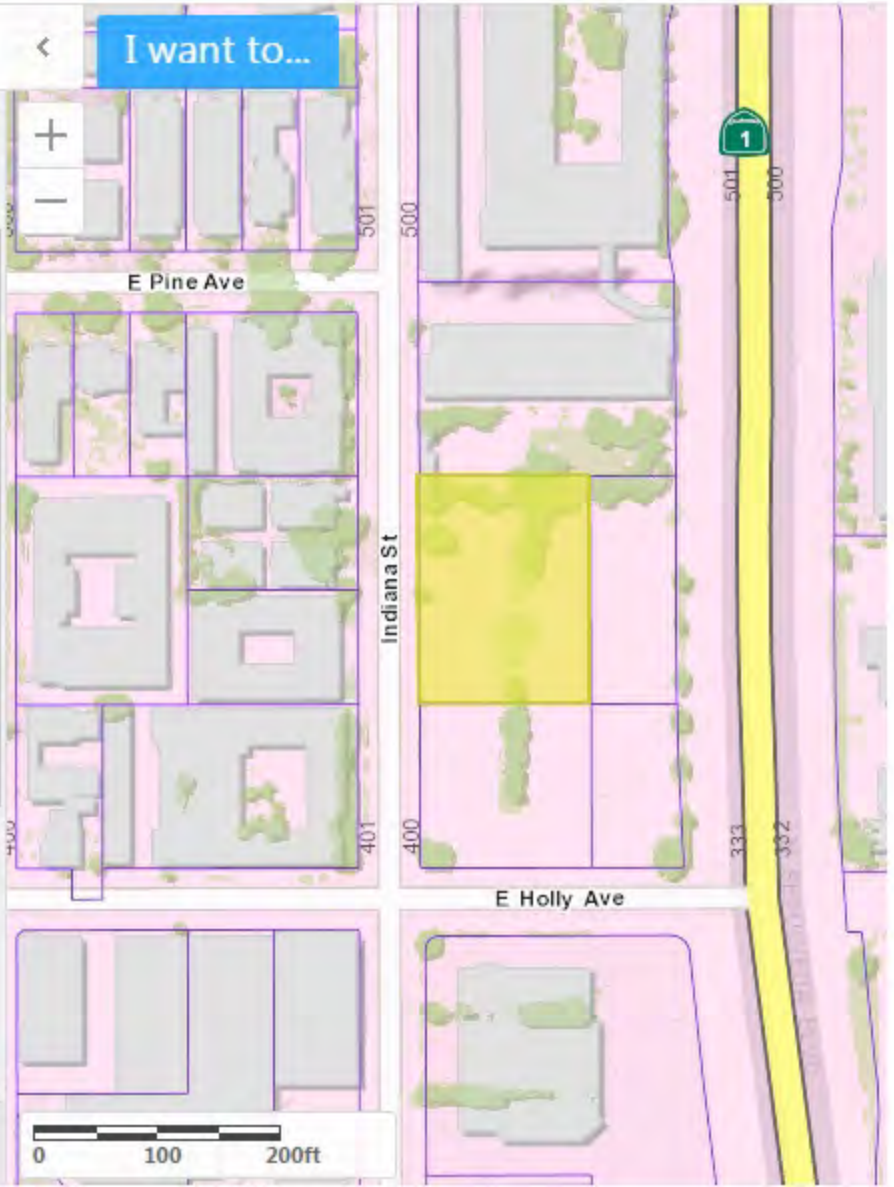
Recent Sales Information

Latest Sale Date:
Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	09/09/2013
Land:	$1,739,697
Improvements:	$1,034
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0
Personal Property	$0



Parcel Details

I want to...

Property Information

Assessor's ID No:	4139-025-074
Address:	Address Not Available
Property Type:	Vacant Land
Region / Cluster:	28 / 28712
Tax Rate Area (TRA):	03710

- View Assessor Map
- View Index map

Recent Sales Information

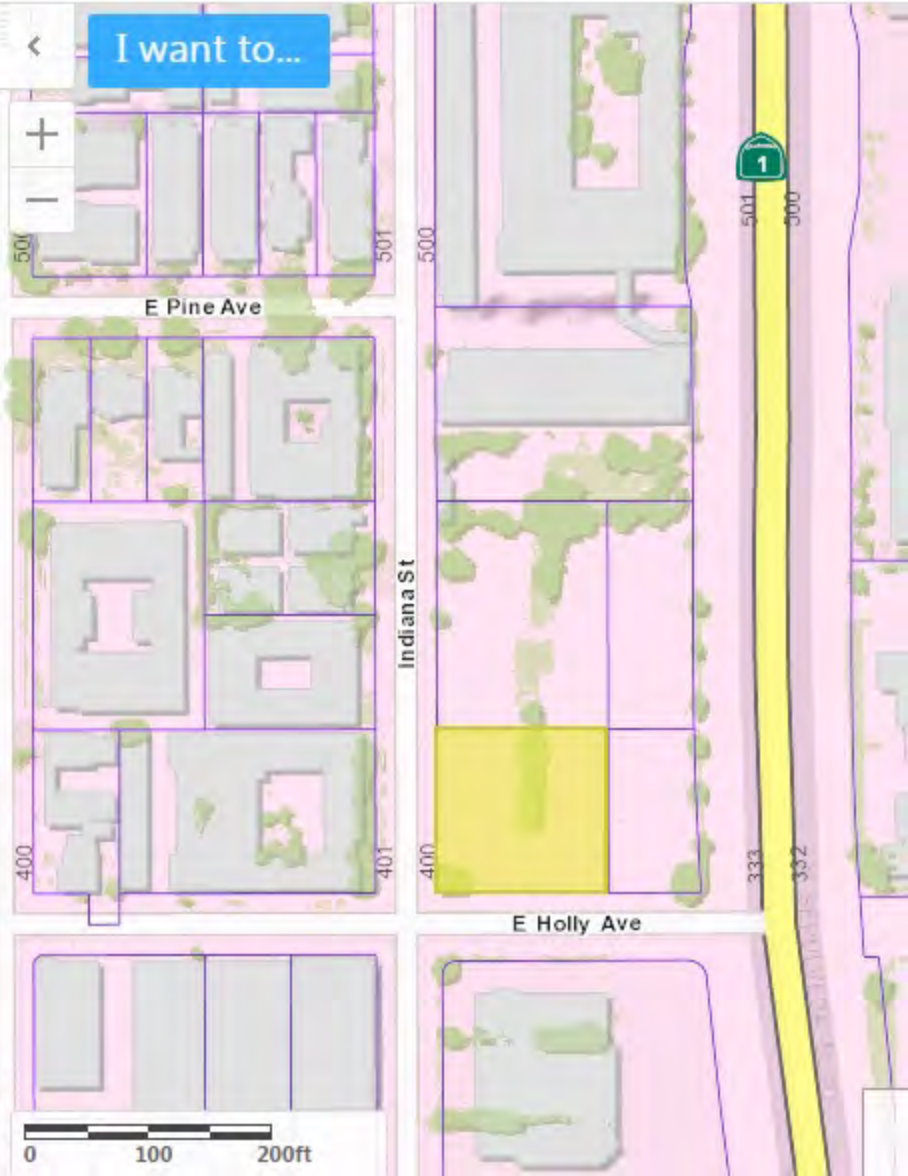
Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	09/09/2013
Land:	$1,251,960
Improvements:	$1,034
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0



Parcel Details

I want to...

Property Information

Assessor's ID No:	4139-025-075
Address:	401 N SEPULVEDA BLVD EL SEGUNDO CA 90245
Property Type:	Vacant Land
Region / Cluster:	28 / 28712
Tax Rate Area (TRA):	03710

- View Assessor Map
- View Index map

Recent Sales Information

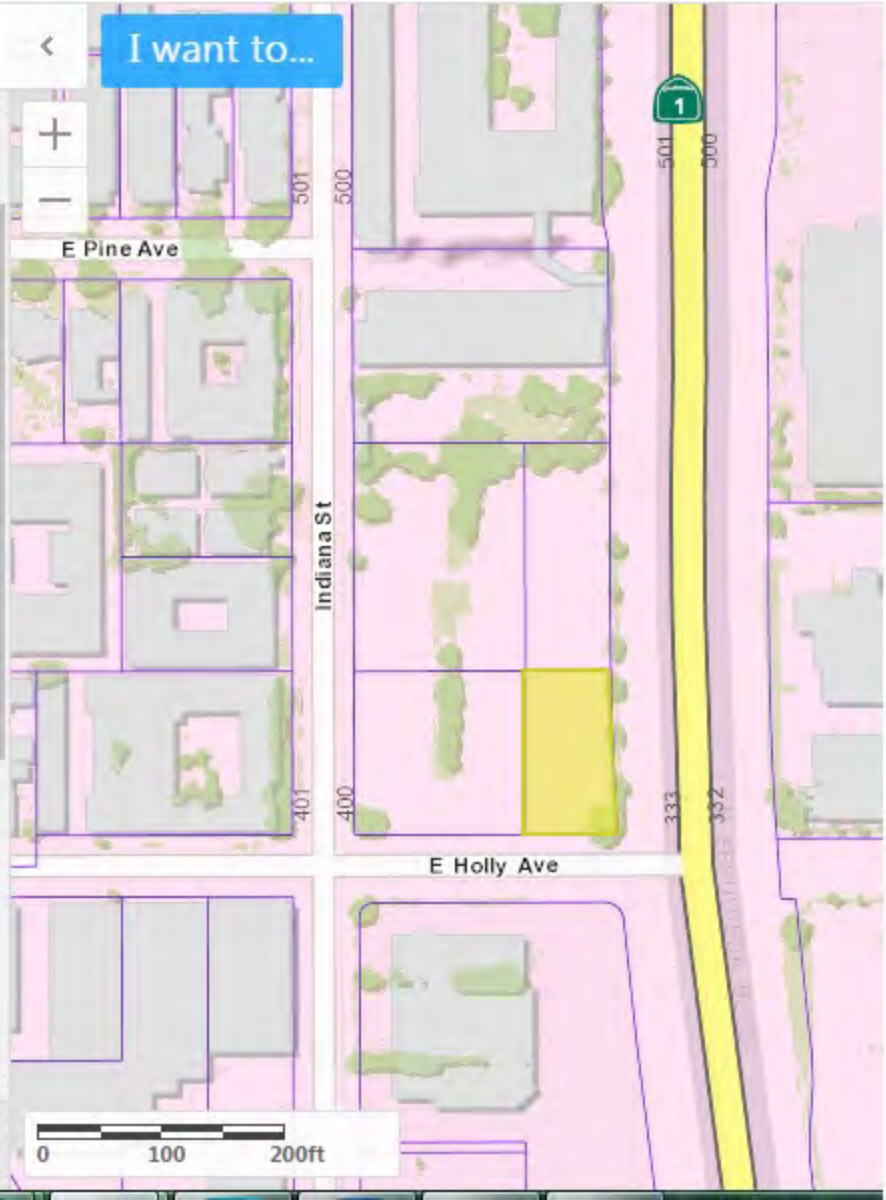
Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	09/09/2013
Land:	$674,132
Improvements:	$1,034
Personal Property:	$0
Fixtures:	$0
Homeowners'	$0



Parcel Details

I want to...

Property Information

Assessor's ID No:	4139-025-076
Address:	Address Not Available
Property Type:	Vacant Land
Region / Cluster:	28 / 28712
Tax Rate Area (TRA):	03710

- View Assessor Map
- View Index map

Recent Sales Information

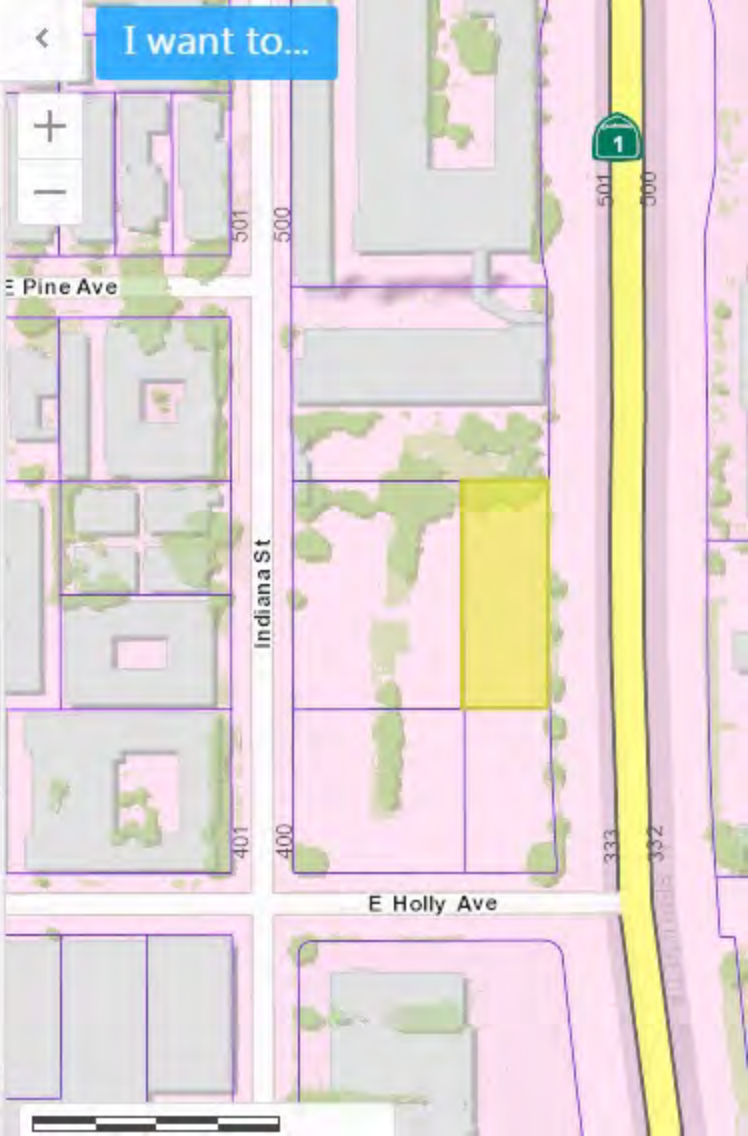
Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	09/09/2013
Land:	$877,097
Improvements:	$1,034
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0



Home Navigation Location Info

Parcel Details

I want to...

Assessor's ID No: 4139-025-081
Address: Address Not Available
Property Type: Commercial / Industrial
Region / Cluster: 28 / 28712
Tax Rate Area (TRA): 03710

- View Assessor Map
- View Index map

Recent Sales Information

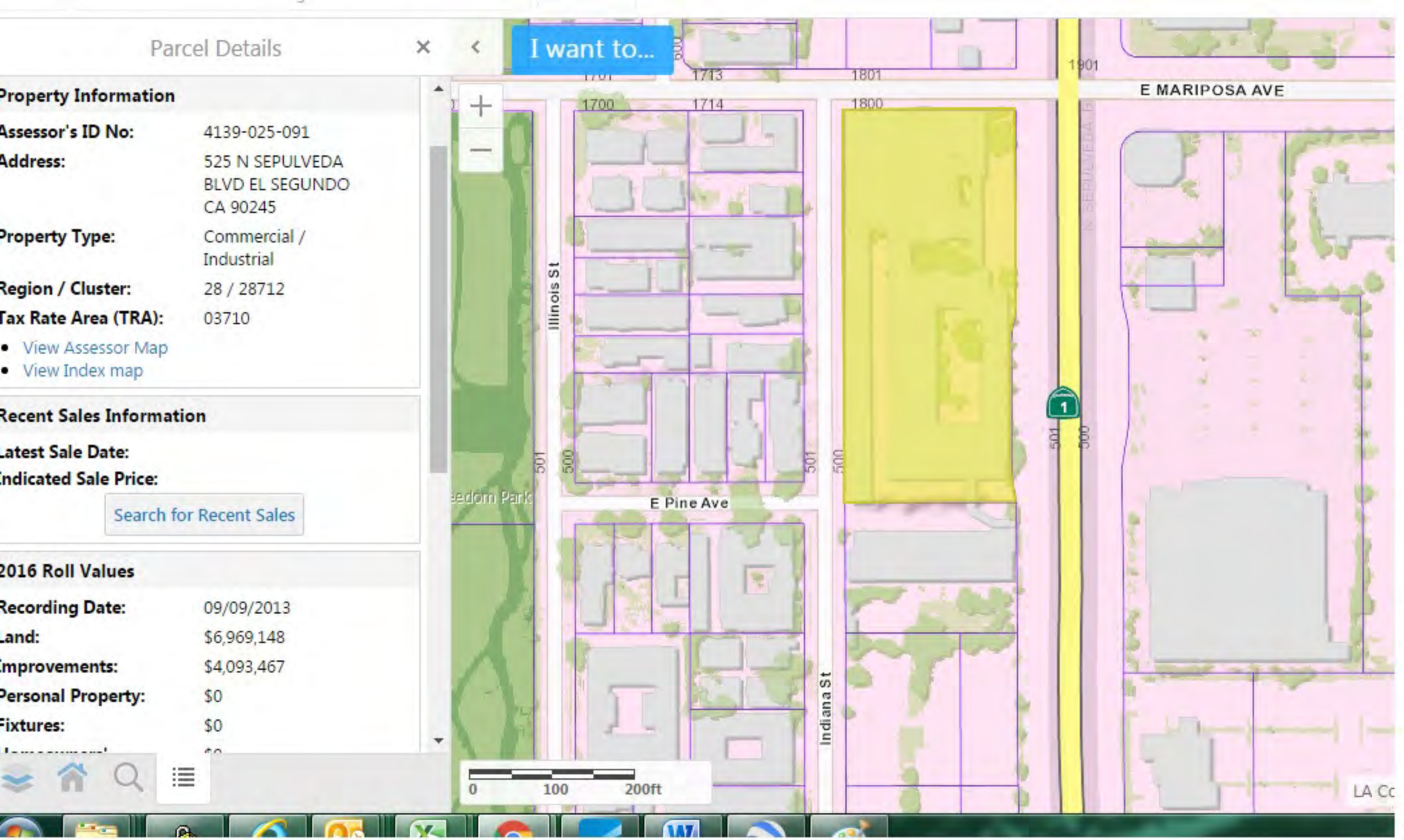
Latest Sale Date:
Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	09/09/2013
Land:	$2,227,434
Improvements:	$3,149,060
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0




Parcel Details
I want to...
Property Information
Assessor's ID No: 4139-025-091
Address: 525 N SEPULVEDA BLVD EL SEGUNDO CA 90245
Property Type: Commercial / Industrial
Region / Cluster: 28 / 28712
Tax Rate Area (TRA): 03710
View Assessor Map
View Index map
Recent Sales Information
Latest Sale Date:
Indicated Sale Price:
Search for Recent Sales
2016 Roll Values
Recording Date: 09/09/2013
Land: $6,969,148
Improvements: $4,093,467
Personal Property: $0
Fixtures: $0
E MARIPOSA AVE
E Pine Ave
Illinois St
Indiana St
1700
1714
1800
1713
1801
1901
0
100
200ft

FIRE INSURANCE MAP RESEARCH RESULTS

Date: 2/22/2017

Order Number: 20170222217

475 & 525 North Sepulveda Boulevard, Los Angeles, CA, 90049.

ERIS has searched our in-house collection of Fire Insurance Maps for the address at:
475 & 525 North Sepulveda Boulevard, Los Angeles, CA, 90049.

Please note that no information was found for your site or adjacent properties.

If you have any questions regarding the enclosed information, please do not hesitate to contact us.

Individual Fire Insurance Maps for the subject property and/or adjacent sites are included with the ERIS environmental database report to be used for research purposes only and cannot be resold for any other commercial uses other than for use in a Phase I environmental assessment.

Address: 38 Lesmill Rd Unit 2, Toronto, ON M3B 2T5
Phone: 1-866-517-5204
info@erisinfo.com • www.erisinfo.com

00518 B

APPLICATION FOR CLOSURE
HAZARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS SANITATION DIVISION
550 SOUTH VERMONT LOS ANGELES, CALIFORNIA 90020

OWNER:
NAME Overton, Moore & Associates
ADDRESS 1299 Artesia Blvd. CITY ~~[illegible]~~ Carson STATE CA ZIP 90746

FACILITY:
NAME Hertz Renta-Car
SITE ADDRESS 540 N Sepulveda CITY El Segundo ZIP 90245
MAILING ADDRESS 1299 Artesia Blvd CITY Carson STATE CA ZIP 90746
CONTACT PERSON Dave Calhoun TITLE Purchasing Agent PHONE 213-321-5100

CLOSURE REQUESTED:
- ☐ TEMPORARY (REFER TO CONDITIONS A AND B ON BACK OF THIS FORM)
  EFFECTIVE DATE OF CLOSURE _____
  DATE OPERATION WILL RESUME _____
- ☑ PERMANENT, TANK(S) REMOVAL DISPOSAL DESTINATION Port of Los Angeles.
  (REFER TO CONDITIONS A AND C ON BACK OF THIS FORM)
- ☐ PERMANENT, TANK(S) IN PLACE
  (REFER TO CONDITIONS A AND D ON BACK OF THIS FORM)

TANK(S) DESCRIPTION: (ATTACH ADDITIONAL LIST IF NECESSARY.)

TANK NO.	MATERIAL	AGE (YEARS)	CAPACITY (GAL)	MATERIALS STORED (PAST AND PRESENT)
1			10,000	Gasoline
2			5000	Gasoline

	YES	NO
HAS ANY UNAUTHORIZED DISCHARGE EVER OCCURRED AT THIS SITE?	☐	☑
HAVE STRUCTURAL REPAIRS EVER BEEN MADE ON THESE TANKS?	☐	☑
WILL NEW UNDERGROUND TANKS BE INSTALLED FOLLOWING CLOSURE?	☐	☑
WILL ANY WELLS, INCLUDING MONITORING WELLS, BE ABANDONED?	☐	☑

IF THE RESPONSE TO ANY OF THE ABOVE QUESTIONS IS YES, ATTACH EXPLANATION.

BY SIGNATURE BELOW THE APPLICANT CERTIFIES THAT HE/SHE HAS READ AND UNDERSTANDS THE CONDITIONS ON THE REVERSE SIDE OF THIS FORM AND THAT THE STATEMENTS AND DISCLOSURES ABOVE ARE TRUE AND CORRECT.

APPLICANT'S SIGNATURE _____ DATE 2-18-85
OWNER ☐ OPERATOR ☐ CONTRACTOR Aman Bros. Inc.
STATE LICENSE NO. 230399 A

TO BE COMPLETED BY THE COUNTY ENGINEER

BY SIGNATURE BELOW APPLICANT IS GRANTED APPROVAL TO PROCEED WITH THE CLOSURE.

FEE COLLECTED $ 26.00
PERMIT NO 0000518B
FILE NO 009105 R/C 2N

Stuart L Berger DATE 2-19-85
TO ARRANGE FOR AN INSPECTION, TELEPHONE 534-4862

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
PROJECT PLANNING AND POLLUTION CONTROL DIVISION

5188

INSPECTOR'S REPORT

TO: Nicholes Agboba DATE: March 12, 1985

FROM: Robert Hartley FILE: I-9105-2N

INDUSTRY: Hazardous Underground Tank Removal

540 No Sepulveda, Elsegundo

REPORT: Company Name: Hertz Rentals

Contact: unknown Phone: 686-1994

Removal Company: Amen Bros Inc.

Address: 514 E. Edna pl., Covina

Contact: Mr. steve Aman Phone: 686-1994

Fire Inspector: Unknown Phone: N/c

Tanks:

Number	Gallonage	Type	content	Holes
one	10,000	steel	gasoline	None
one	5,000	steel	gasoline	None.

Soil Conditions:

Type Soil: silt Soil Discolorations: None

Soil Contamination: None Soil Moisture: Dry

Soil Odor: None

Remarks. Closure Permit # 578B.

Charges - Two Inspections - three Hours.

APPENDIX G:
HISTORICAL ENVIRONMENTAL DOCUMENTS

Asbestos Sampling Report

Hacienda Hotel

525 N Sepulveda Boulevard
El Segundo, California

EBI Project No. 11131368

May 1, 2013



Prepared for:

Rubicon Holdings LLC
29 Willowmere Avenue
Riverside, Connecticut 06878

Prepared by:

EBI Consulting
environmental | engineering | due diligence

EBI Consulting
environmental | engineering | due diligence

21 B Street
Burlington, MA 01803
Tel: (781) 273-2500
Fax: (781) 273-3311
www.ebiconsulting.com

May 1, 2013

Mr. Marc Gordon
Managing Director
Rubicon Holdings LLC
29 Willowmere Avenue
Riverside, Connecticut 06878

Re: Asbestos Sampling Report
Hacienda Hotel
525 N Sepulveda Boulevard, El Segundo, California 90245
EBI Project No. 11131368

Dear Mr. Gordon:

As requested by Rubicon Holdings LLC, Envirobusiness, Inc. (dba EBI Consulting hereinafter "EBI") performed a comprehensive sampling for suspect asbestos-containing building materials (ACBMs) that are anticipated to be impacted by planned building renovation/demolition at the Hacienda Hotel located at 525 N Sepulveda Boulevard in El Segundo, California (the Subject Property).

BACKGROUND

The Subject Property is currently improved with a full-service hotel with 620 guestrooms, including one eight-story tower, one nine-story tower, one four-story tower, and a two-story food and beverage building. The Main Building has a partial basement. There are no other basements present beneath the existing structures. The existing improvements were reportedly constructed between 1959 and 1979.

SCOPE OF WORK

The asbestos sampling involved locating and assessing the condition of accessible suspect ACBMs using sampling and visual inspection techniques, to develop a report which identifies the extent of the materials present within the Subject Property buildings.

The asbestos sampling of the Subject Property was performed on March 20, 2013 through April 3, 2013 by Mr. Kurt Baumann and Mr. George Medina, EPA Accredited Asbestos Inspectors. Accessible areas of the interior of the building were inspected. The survey was conducted in accordance with Federal, State, and local, asbestos-industry standards for building renovation or demolition.

ASBESTOS INSPECTION

EBI conducted a comprehensive inspection for the presence of ACBMs at the Subject Property buildings. Each area observed was evaluated for the presence of building materials suspected of containing asbestos.

ACBMs are generally classified as friable or non-friable. Friable materials are those which can be crumbled, pulverized or reduced to powder by hand pressure or by normal use or maintenance emissions or can be expected to emit asbestos into the air.

Bulk samples of suspect ACBMs were analyzed by Environmental Hazards Services, LLC (EHS) of Richmond, Virginia using the approved polarized light microscopy with dispersion staining (PLM/DS) method. By using the PLM/DS method, a trained microscopist is able to identify and distinguish between asbestos group minerals and other fibrous materials such as cellulose (paper), mineral (rock), wood, or glass fiber. The quantity of each of these substances is estimated on a weight basis and recorded as a percent. Only the asbestos content, if any, is recorded in the bulk sample Report of Analysis. If a material contains greater than 1% asbestos, it is considered to be an ACM by EPA standards. In California, if a material contains greater than 0.10% asbestos it is considered to be an asbestos-containing construction (ACCM) material by CAL OSHA standards.

The following is a listing of types of suspect ACMs observed:

Four Story Main Building

- Various floor tiles and associated mastics
- Various floor leveling compounds
- Various linoleum flooring and mastics
- Various applications of ceramic tile grout
- Various types of thermal system insulation
- Various types of surfacing material
- Various gypsum board and associated joint compound applications
- Various applications of caulk
- Various ceiling tile types

F & B Building

- Various floor tiles and associated mastics
- Various floor leveling compounds
- Various cove bases and associated adhesives
- Carpet mastics
- Various applications of ceramic tile grout and adhesives
- Various types of thermal system insulation
- Various types of surfacing material
- Various gypsum board and associated joint compound applications
- Various applications of caulk
- Various ceiling tile types

South Tower

- Various floor tiles and associated mastics
- Various floor leveling compounds
- Various cove bases and associated adhesives
- Carpet mastics
- Various applications of ceramic tile grout and adhesives
- Various types of surfacing material
- Various gypsum board and associated joint compound applications
- Various applications of caulk
- Various ceiling tile types

West Tower

- Various floor tiles and associated mastics
- Various floor leveling compounds
- Carpet mastics
- Various applications of ceramic tile grout
- Various types of thermal system insulation
- Various types of surfacing material
- Various gypsum board and associated joint compound applications
- Various applications of caulk

The following table summarizes the ACBM identified during the sampling.

SUMMARY OF IDENTIFIED AND ASSUMED ACBMs							
FOUR STORY MAIN BUILDING							
HA No.	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**NESHAP Category**	**Cond-ition**	**Approx. Quantity**
M-01	Black Mastic to Green 9"x9" Floor Tile	Engineers Offices	3%-4% Chrysotile	Non-Friable	Category 1	Good	100 SF
M-01	Green 9"x9" Floor Tile	Engineers Offices	3% Chrysotile	Non-Friable	Category 1	Good	100 SF
M-02	Black Mastic to White 12"x12" Floor Tile	Engineers Offices	3% Chrysotile	Non-Friable	Category 1	Good	550 SF
M-03	White w/Gray Streaks 12"x12" Floor Tile	Housekeeping Office	3% Chrysotile	Non-Friable	Category 1	Good	150 SF
M-05	White 9"x9" Floor Tile	Laundry Folding Area	3% Chrysotile	Non-Friable	Category 1	Good	100 SF
M-06	Black 9"x9" Floor Tile	Laundry Folding Area	5% Chrysotile	Non-Friable	Category 1	Good	200 SF
M-07	Gray w/Black Streaks 12"x12" Floor Tile	Penthouse Hall	2%-3% Chrysotile	Non-Friable	Category 1	Good	75 SF
M-08	Brown w/ Black Specks 9"x9" Floor Tile	Penthouse Room 1	5% Chrysotile	Non-Friable	Category 1	Good	150 SF
S-01	Acoustic Ceiling	Throughout	3% - 6% Chrysotile	Friable	RACM	Good	165,000 SF
S-02	Joint Compound	Throughout	2% Chrysotile	Friable	RACM	Good	320,000 SF
S-06	Textured Ceiling & Wall Compound	Suite 1503	Trace <1% Chrysotile	Friable	RACM	Good	1,000 SF*
TSI-02	Hard Pack Elbow To Fiberglass Pipe Insulation	Mechanical Room #2	6% Chrysotile 2% Amosite	Friable	RACM	Good	8 Elbows
-	Roofing Materials	Roof	Assumed	NA	NA	NA	NA
-	Fire Doors	Throughout	Assumed	NA	NA	NA	NA

SF = Square Feet
LF = Linear Feet
* = materials identified as trace (<1%) asbestos have to be treated as ACBM unless further analysis is conducted which proves otherwise.

SUMMARY OF IDENTIFIED AND ASSUMED ACMs							
F & B BUILDING							
HA No.	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**NESHAP Category**	**Cond-ition**	**Approx. Quantity**
M-05	Black Mastic to Beige 12"x12" Floor Tile	2nd Floor, Sound Room	2% Chrysotile	Non-Friable	Category 1	Good	100 SF
M-08	Brown 9"x9" Floor Tile	2nd Floor, Attic Old	3% Chrysotile	Non-Friable	Category 1	Good	400 SF
S-02	Joint Compound	Throughout	2% Chrysotile	Friable	RACM	Good	100,000 SF

SUMMARY OF IDENTIFIED AND ASSUMED ACMS							
F & B BUILDING							
HA No.	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**NESHAP Category**	**Cond-ition**	**Approx. Quantity**
S-03	Spray on Fireproofing	Throughout	3% - 15% Chrysotile	Friable	RACM	Good	100,000 SF
S-04	Plaster	1st Floor, Kitchen, Dry Goods	Joint Comp - Trace <1% Chrysotile Base Coat - Trace <1% Tremolite / Actinolite	Friable	RACM	Good	1,000 SF*
S-05	Acoustic Ceiling	1st Floor, Bar & Dance Floor	2% - 3% Chrysotile	Friable	RACM	Good	10,000 SF
S-06	Acoustic Ceiling	2nd Floor, Attic	2% Chrysotile Trace <1% Tremolite / Actinolite	Friable	RACM	Good	400 SF
TSI-1	Hard Pack Elbows off Old Boiler	Basement, Boiler Room	25% - 55% Chrysotile 5% - 7% Amosite	Friable	RACM	Good	8 Elbows
-	Roofing Materials	Roof	Assumed	NA	NA	NA	NA
-	Fire Doors	Throughout	Assumed	NA	NA	NA	NA

SF = Square Feet
LF = Linear Feet
* = materials identified as trace (<1%) asbestos have to be treated as ACBM unless further analysis is conducted which proves otherwise.

SUMMARY OF IDENTIFIED AND ASSUMED ACMS							
WEST TOWER							
HA No.	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**NESHAP Category**	**Cond-ition**	**Approx. Quantity**
M-08	Pipe Wrap to Blue and White Painted Pipe Insulation	Penthouse	20% Chrysotile 45% Amosite	Friable	RACM	Good	250 SF
S-02	Joint Compound	Gypsum Board System in all Floors, Hallways and Rooms Throughout the Building	2% Chrysotile	Friable	RACM	Good	230,000 SF
S-02	Textured Ceiling Material Over Gypsum Board	Gypsum Board System in all Floors, Hallways and Entryway in Rooms Throughout the Building	Non-ACBM, Contaminated by the joint compound	Friable	RACM	Good	20,000 SF
S-04	Acoustic Popcorn	Throughout	10% - 12% Chrysotile	Friable	RACM	Good	60,000 SF
-	Roofing Materials	Roof	Assumed	NA	NA	NA	NA

SUMMARY OF IDENTIFIED AND ASSUMED ACMS							
WEST TOWER							
HA No.	Material Description	Material Locations	Asbestos Content	Friability	NESHAP Category	Cond-ition	Approx. Quantity
-	Fire Doors	Throughout	Assumed	NA	NA	NA	NA

SF = Square Feet
LF = Linear Feet

SUMMARY OF IDENTIFIED AND ASSUMED ACMS							
SOUTH TOWER							
HA No.	Material Description	Material Locations	Asbestos Content	Friability	NESHAP Category	Cond-ition	Approx. Quantity
-	Roofing Materials	Roof	Assumed	NA	NA	NA	NA
-	Fire Doors	Throughout	Assumed	NA	NA	NA	NA

SF = Square Feet
LF = Linear Feet

Based on the laboratory analytical results, 24 homogenous building materials were identified as ACBMs (>1% asbestos) or as having trace asbestos (<1%) which have to be treated as ACBM unless further analysis is conducted which proves otherwise. Photographs of representative ACBMs can be found in **Attachment A**. A complete sample table can be found in **Attachment B** which provides additional information regarding material descriptions, locations, and quantities. Laboratory results and Chain of Custody can be found in **Attachment C**.

EBI also identified suspect ACBM in the form of roofing materials and fire doors at the Subject Property. Sampling of these types of materials requires techniques that may be destructive to subject facilities and may void warranties. As such roofing materials and fire doors were not sampled and are assumed ACBM.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the laboratory analyses, various materials at the Subject Property buildings have been identified as ACBM as described above. In addition, roofing materials and fire doors at the Subject Property are also assumed to be ACBM. Additional suspect ACBM may be present at the Subject Property in areas that were not accessed during the survey. If additional suspect ACBM is identified at the Subject Property, which is not identified in this report, they must be treated as asbestos-containing unless future sampling determines otherwise.

The identified and assumed ACBM are in good condition or inaccessible and may be managed in place. EBI recommends the development and implementation of an Asbestos Operations and Maintenance (O&M) Plan for the Subject Property. The O&M Plan should provide procedures and guidelines that, when used during facility cleaning, maintenance, and general operations, will minimize human exposure to asbestos fibers and minimize release of asbestos fibers to the environment.

In the event that renovation/demolition procedures are likely to disturb these materials, the ACBM must be removed in advance by a licensed asbestos contractor and disposed of appropriately in accordance with federal, state, and local regulations.

This document is not designed for bidding purposes. All quantities are estimated and should be confirmed prior to bidding on and/or performing abatement activities.

LIMITATIONS

This Report presents the findings of a limited investigation but does not constitute a complete determination of whether past or present owners or occupants of the Subject Property have been in compliance with all applicable local, state, and federal environmental regulations. The information contained herein is based on on-site observations and on a limited investigation involving site observations only. The investigative methods applied to this assessment are consistent with current industry standards for the performance of investigation within the limits of the scope of work, budget, and schedule. It should be noted that no conclusions can be drawn regarding the existence of conditions that were not addressed by the scope of work.

This assessment and Report were prepared by EBI solely for the use of Rubicon Holdings LLC, Rubicon B Hacienda LLC, and their lenders. Third party use of this Report is prohibited without the prior written consent of EBI and use thereof is at the risk of the user. The observations and results presented in this Report are believed to be representative of site conditions prevailing at the time of the assessment in the areas explored. Changes in site conditions or in the availability of information regarding past or current site conditions should be brought to EBI's attention so that they can be addressed and EBI's conclusions verified or modified as appropriate.

It has been a pleasure to prepare this *Report.* Please call Darrell Cheng at (516) 993-6077 or David Kennedy at (443) 528-2318 if you have any questions, comments, or if we can be of further assistance in any way.

Respectfully Submitted,

Darrell Cheng
Project Manager

David Kennedy
Program Manager

Attachment A: Photographs
Attachment B: Complete Asbestos Sample Table
Attachment C: Asbestos Laboratory Results and Chain of Custody
Attachment D: Certifications

ATTACHMENT A
PHOTOGRAPHS



1. ACBM green 9”x9” floor tile and associated black mastic on the right in the four-story main building. ACBM black mastic to white 12”x12” floor tile on the left. The white 12”x12” floor tile is non-ACBM.



2. ACBM white w/gray streaks 12”x12” floor tile in the four-story main building. The mastic is non-ACBM.



3. ACBM white 9”x9” floor tile in the four-story main building. The mastic is non-ACBM.



4. ACBM black 9”x9” floor tile in the four-story main building. The mastic is non-ACBM.



5. ACBM gray w/ black streaks 12”x12” floor tile in the four-story main building. The mastic is non-ACBM.



6. ACBM brown w/black specks 9”x9” floor tile in the four-story main building. The mastic is non-ACBM.



7. ACBM acoustic ceiling in the four-story main building.



8. ACBM joint compound on the gypsum board system in the four-story main building. The gypsum board and tape is non-ACBM.



9. ACBM hard pack elbow to fiberglass pipe insulation in the four-story main building.



10. ACBM black mastic to beige 12”x12” floor tile in the F & B building. The floor tile is non-ACBM.



11. ACBM brown 9”x9” floor tile in the F & B building. The mastic is non-ACBM



12. ACBM joint compound on the gypsum board system in the F & B building. The gypsum board and tape is non-ACBM.



13. ACBM spray on fireproofing in the F & B building.



14. ACBM plaster in the F & B building.



15. ACBM acoustic ceiling in the F & B building.



16. ACBM hard pack elbows off the old boiler in the F & B building.



17. ACBM pipe wrap to blue and white painted pipe insulation in the west tower.



18. ACBM joint compound on the gypsum board system in the west tower. The gypsum board and tape is non-ACBM.



19. ACBM joint compound and textured material over gypsum board on the gypsum board system in the west tower. The gypsum board and tape is non-ACBM.



20. ACBM acoustic popcorn in the west tower.

ATTACHMENT B
COMPLETE ASBESTOS SAMPLE TABLE

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-01	**13-03-03069-1**	**Green 9"x9" Floor Tile and Black Mastic**	**Engineers Offices**	**Floor Tile - 3% Chrysotile Mastic - 3% Chrysotile**	**Non-Friable**	**Good**
M-01	**13-03-03069-2**	**Green 9"x9" Floor Tile and Black Mastic**	**Engineers Offices**	**Floor Tile - 3% Chrysotile Mastic - 4% Chrysotile**	**Non-Friable**	**Good**
M-01	**13-03-03069-3**	**Green 9"x9" Floor Tile and Black Mastic**	**Engineers Offices**	**Floor Tile - 3% Chrysotile Mastic - 4% Chrysotile**	**Non-Friable**	**Good**
M-02	**13-03-03069-4**	**White 12"x12" Floor Tile & Black Mastic**	**Engineers Offices**	**Floor Tile - ND Mastic - 3% Chrysotile**	**Non-Friable**	**Good**
M-02	**13-03-03069-5**	**White 12"x12" Floor Tile & Black Mastic**	**Engineers Offices**	**Floor Tile - ND Mastic - 3% Chrysotile**	**Non-Friable**	**Good**
M-02	**13-03-03069-6**	**White 12"x12" Floor Tile & Black Mastic**	**Engineers Offices**	**Floor Tile - ND Mastic - 3% Chrysotile**	**Non-Friable**	**Good**
M-03	**13-03-03069-10**	**White w/Gray Streaks 12"x12" Floor Tile & Mastic**	**Housekeeping Office**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-03	**13-03-03069-11**	**White w/Gray Streaks 12"x12" Floor Tile & Mastic**	**Housekeeping Office**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-03	**13-03-03069-12**	**White w/Gray Streaks 12"x12" Floor Tile & Mastic**	**Housekeeping Office**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-04	13-03-03069-13	Yellow Diamond 12"x12" Floor Tile & Mastic	Housekeeping Office	ND	Non-Friable	Good
M-04	13-03-03069-14	Yellow Diamond 12"x12" Floor Tile & Mastic	Housekeeping Office	ND	Non-Friable	Good
M-04	13-03-03069-15	Yellow Diamond 12"x12" Floor Tile & Mastic	Housekeeping Office	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-05	**13-03-03069-17**	**White 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-05	**13-03-03069-18**	**White 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-05	**13-03-03069-19**	**White 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-06	**13-03-03069-20**	**Black 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-06	**13-03-03069-21**	**Black 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-06	**13-03-03069-22**	**Black 9"x9" Floor Tile & Mastic**	**Laundry Folding Area**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-07	**13-03-03069-31**	**Gray w/Black Streaks 12"x12" Floor Tile & Mastic**	**Penthouse Hall**	**Floor Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-07	**13-03-03069-32**	**Gray w/Black Streaks 12"x12" Floor Tile & Mastic**	**Penthouse Hall**	**ND**	**Non-Friable**	**Good**
M-07	**13-03-03069-33**	**Gray w/Black Streaks 12"x12" Floor Tile & Mastic**	**Penthouse Hall**	**Floor Tile - 2% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-08	**13-03-03069-34**	**Brown w/ Black Specks 9"x9" Floor Tile & Mastic**	**Penthouse Room 1**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-08	**13-03-03069-35**	**Brown w/ Black Specks 9"x9" Floor Tile & Mastic**	**Penthouse Room 1**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-08	**13-03-03069-36**	**Brown w/ Black Specks 9"x9" Floor Tile & Mastic**	**Penthouse Room 1**	**Floor Tile - 5% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-09	13-03-03069-43	Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-09	13-03-03069-44	Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good
M-09	13-03-03069-45	Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good
M-10	13-03-03069-46	Mastic to Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good
M-10	13-03-03069-47	Mastic to Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good
M-10	13-03-03069-48	Mastic to Brown Linoleum	1st Floor, Housekeeping Room	ND	Non-Friable	Good
M-11	13-03-03069-51	Carpet Mastic	1st Floor, Hallway	ND	Non-Friable	Good
M-11	13-03-03069-52	Carpet Mastic	1st Floor, Hallway	ND	Non-Friable	Good
M-11	13-03-03069-53	Carpet Mastic	1st Floor, Hallway	ND	Non-Friable	Good
M-12	13-03-03069-66	Black and White Rubberized Floor Tile & Mastic	1st Floor, Gift Shop	ND	Non-Friable	Good
M-12	13-03-03069-67	Black and White Rubberized Floor Tile & Mastic	1st Floor, Gift Shop	ND	Non-Friable	Good
M-12	13-03-03069-68	Black and White Rubberized Floor Tile & Mastic	1st Floor, Gift Shop	ND	Non-Friable	Good
M-13	13-03-03069-70	Carpet Mastic	1st Floor, Old Carpet in Offices	ND	Non-Friable	Good
M-13	13-03-03069-71	Carpet Mastic	1st Floor, Old Carpet in Offices	ND	Non-Friable	Good
M-13	13-03-03069-72	Carpet Mastic	1st Floor, Old Carpet in Offices	ND	Non-Friable	Good
M-14	13-03-03069-73	Carpet Mastic	1st Floor, Oldest Carpet in Executive Offices	ND	Non-Friable	Good
M-14	13-03-03069-74	Carpet Mastic	1st Floor, Oldest Carpet in Executive Offices	ND	Non-Friable	Good
M-14	13-03-03069-75	Carpet Mastic	1st Floor, Oldest Carpet in Executive Offices	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-15	13-03-03069-79	2'x4' Dropped Ceiling Tile	Accounting Office	ND	Friable	Good
M-15	13-03-03069-80	2'x4' Dropped Ceiling Tile	Accounting Office	ND	Friable	Good
M-15	13-03-03069-81	2'x4' Dropped Ceiling Tile	Accounting Office	ND	Friable	Good
M-16	13-03-03069-82	12"x12" Concealed Spline Ceiling Tiles	Accounting Office	ND	Friable	Good
M-16	13-03-03069-83	12"x12" Concealed Spline Ceiling Tiles	Accounting Office	ND	Friable	Good
M-16	13-03-03069-84	12"x12" Concealed Spline Ceiling Tiles	Accounting Office	ND	Friable	Good
M-17	13-03-03069-85	Gray Speckled Linoleum and Mastic	Accounting Office, Under Stairwell	ND	Non-Friable	Good
M-17	13-03-03069-86	Gray Speckled Linoleum and Mastic	Accounting Office, Under Stairwell	ND	Non-Friable	Good
M-17	13-03-03069-87	Gray Speckled Linoleum and Mastic	Accounting Office, Under Stairwell	ND	Non-Friable	Good
M-18	13-03-03069-92	Red Floor Tile, Mastic, and Leveling Compound	Elevator	ND	Non-Friable	Good
M-18	13-03-03069-93	Red Floor Tile, Mastic, and Leveling Compound	Elevator	ND	Non-Friable	Good
M-18	13-03-03069-94	Red Floor Tile, Mastic, and Leveling Compound	Elevator	ND	Non-Friable	Good
M-19	13-03-03404-4	Window Putty	Rear of Building	ND	Non-Friable	Good
M-19	13-03-03404-5	Window Putty	Rear of Building	ND	Non-Friable	Good
M-19	13-03-03404-6	Window Putty	Rear of Building	ND	Non-Friable	Good
S-01	**13-03-03069-7**	**Acoustic Ceiling**	**Engineers Offices**	**3% Chrysotile**	**Friable**	**Good**
S-01	**13-03-03069-40**	**Acoustic Ceiling**	**4th Floor, Hallway**	**ND**	**Friable**	**Good**
S-01	**13-03-03069-42**	**Acoustic Ceiling**	**1st Floor, Hallway**	**ND**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	Sample No.	Material Description	Material Locations	Asbestos Content	Friability	Condition
S-01	13-03-03069-55	Acoustic Ceiling	2nd Floor, Hallway Outside Room 1231	ND	Friable	Good
S-01	13-03-03069-57	Acoustic Ceiling	Hallway Outside Room 1412	ND	Friable	Good
S-01	13-03-03069-59	Acoustic Ceiling	Room 1251	6% Chrysotile	Friable	Good
S-01	13-03-03069-76	Acoustic Ceiling	1st Floor, Directors Conference Room	ND	Friable	Good
S-02	13-03-03069-8	Drywall, Tape & Joint Compound	Engineers Offices	ND	Friable	Good
S-02	13-03-03069-37	Drywall Tape & Joint Compound	Penthouse	ND	Friable	Good
S-02	13-03-03069-41	Drywall Tape & Joint Compound	4th Floor, Laundry Room	Drywall - ND Joint Comp. - 2% Chrysotile	Friable	Good
S-02	13-03-03069-50	Drywall Tape & Joint Compound	Room 1138	Drywall - ND Seam Tape - ND Joint Comp. - 2% Chrysotile Surface Finish - ND	Friable	Good
S-02	13-03-03069-54	Drywall Tape & Joint Compound	2nd Floor, Room 1231	Drywall - ND Seam Tape - ND Joint Comp. - 2% Chrysotile Surface Finish - ND	Friable	Good
S-02	13-03-03069-56	Drywall Tape & Joint Compound	Room 1419	Drywall - ND Seam Tape - ND Joint Comp. - 2% Chrysotile Surface Finish - ND	Friable	Good

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-02	**13-03-03069-58**	**Drywall Tape & Joint Compound**	**Room 1251**	**Drywall - ND Seam Tape - ND Joint Comp. - 2% Chrysotile Surface Finish - ND**	**Friable**	**Good**
S-03	13-03-03069-23	Plaster Ceiling	Basement, Store Room	ND	Friable	Good
S-03	13-03-03069-24	Plaster Ceiling	Basement, Store Room	ND	Friable	Good
S-03	13-03-03069-25	Plaster Ceiling	Basement, Store Room	ND	Friable	Good
S-03	13-03-03069-29	Plaster Ceiling	Basement, Store Room	ND	Friable	Good
S-03	13-03-03069-30	Plaster Ceiling	Basement, Store Room	ND	Friable	Good
S-04	13-03-03069-26	Exterior Stucco	South Side Basement	ND	Friable	Good
S-04	13-03-03069-27	Exterior Stucco	West Side Basement	ND	Friable	Good
S-04	13-03-03069-28	Exterior Stucco	South Side Basement	ND	Friable	Good
S-04	13-03-03069-38	Exterior Stucco	Penthouse Stairwell	ND	Friable	Good
S-04	13-03-03069-88	Exterior Stucco	1st Floor, East Side	ND	Friable	Good
S-04	13-03-03069-89	Exterior Stucco	1st Floor, East Side	ND	Friable	Good
S-04	13-03-03069-90	Exterior Stucco	1st Floor, West Side	ND	Friable	Good
S-05	13-03-03069-60	Grout from Brown Bathroom	Room 1258	ND	Friable	Good
S-05	13-03-03069-61	Grout from White Bathroom	Room 1251	ND	Friable	Good
S-05	13-03-03069-62	Grout from White Bathroom	Room 1405	ND	Friable	Good
S-06	**13-03-03069-63**	**Textured Ceiling & Wall Compound**	**Room 1503**	**ND**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – FOUR STORY MAIN BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-06	**13-03-03069-64**	**Textured Ceiling & Wall Compound**	**Suite 1503**	**ND**	**Friable**	**Good**
S-06	**13-03-03069-65**	**Textured Ceiling & Wall Compound**	**Suite 1403**	**Trace <1% Chrysotile**	**Friable**	**Good**
TSI-01	13-03-03069-9	Hard Pack Elbow To Fiberglass Pipe Insulation	Mechanical Room #1	ND	Friable	Good
TSI-02	**13-03-03069-16**	**Hard Pack Elbow To Fiberglass Pipe Insulation**	**Mechanical Room #2**	**6% Chrysotile 2% Amosite**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – F & B BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-01	13-03-02898-14	Green 12"x12" Terrazzo Floor Tile	1st Floor, Men's Bathroom near Entrance of Café	ND	Non-Friable	Good
M-01	13-03-02898-15	Green 12"x12" Terrazzo Floor Tile	1st Floor, Men's Bathroom near Entrance of Café	ND	Non-Friable	Good
M-01	13-03-02898-16	Green 12"x12" Terrazzo Floor Tile	1st Floor, Men's Bathroom near Entrance of Café	ND	Non-Friable	Good
M-02	13-03-02898-24	Carpet Mastic	1st Floor, Santa Clara Room	ND	Non-Friable	Good
M-02	13-03-02898-25	Carpet Mastic	1st Floor, Santa Clara Room	ND	Non-Friable	Good
M-02	13-03-02898-26	Carpet Mastic	1st Floor, Santa Clara Room	ND	Non-Friable	Good
M-03	13-03-02898-27	2'x2' White Drop Ceiling Tile	1st Floor, Santa Clara Room	ND	Friable	Good
M-03	13-03-02898-28	2'x2' White Drop Ceiling Tile	1st Floor, Santa Inez Room	ND	Friable	Good
M-03	13-03-02898-29	2'x2' White Drop Ceiling Tile	1st Floor, Santa Inez Room	ND	Friable	Good
M-04	13-03-02898-32	White 12"x12" Floor Tile & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – F & B BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-04	13-03-02898-33	White 12"x12" Floor Tile & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good
M-04	13-03-02898-34	White 12"x12" Floor Tile & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good
M-05	**13-03-02898-35**	**Beige 12"x12" Floor Tile & Mastic**	**2nd Floor, Sound Room**	**ND**	**Non-Friable**	**Good**
M-05	**13-03-02898-36**	**Beige 12"x12" Floor Tile & Mastic**	**2nd Floor, Sound Room**	**Beige Tile - ND Yellow Mastic - ND Underlayment - ND Black Mastic - 2% Chrysotile**	**Non-Friable**	**Good**
M-05	**13-03-02898-37**	**Beige 12"x12" Floor Tile & Mastic**	**2nd Floor, Sound Room**	**Beige Tile - ND Yellow Mastic - ND Underlayment - ND Black Mastic - 2% Chrysotile**	**Non-Friable**	**Good**
M-06	13-03-02898-38	Beige Baseboard & Mastic	2nd Floor, Sound Room	ND	Non-Friable	Good
M-06	13-03-02898-39	Beige Baseboard & Mastic	2nd Floor, Sound Room	ND	Non-Friable	Good
M-06	13-03-02898-40	Beige Baseboard & Mastic	2nd Floor, Sound Room	ND	Non-Friable	Good
M-07	13-03-02898-41	Gray Baseboard & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good
M-07	13-03-02898-42	Gray Baseboard & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good
M-07	13-03-02898-43	Gray Baseboard & Mastic	2nd Floor, Banquet Set-Up Room	ND	Non-Friable	Good
M-08	**13-03-02898-48**	**Brown 9"x9" Floor Tile & Mastic**	**2nd Floor, Attic Old**	**Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-08	**13-03-02898-49**	**Brown 9"x9" Floor Tile & Mastic**	**2nd Floor, Attic Old**	**Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**
M-08	**13-03-02898-50**	**Brown 9"x9" Floor Tile & Mastic**	**2nd Floor, Attic Old**	**Tile - 3% Chrysotile Mastic - ND**	**Non-Friable**	**Good**

ASBESTOS SURVEY TABLE – F & B BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-10	13-03-03404-1	Window Putty	Restaurant	ND	Non-Friable	Good
M-10	13-03-03404-2	Window Putty	Restaurant	ND	Non-Friable	Good
M-10	13-03-03404-3	Window Putty	Restaurant	ND	Non-Friable	Good
S-01	13-03-02898-1	Ceiling Texture	Basement, Bathroom #1	ND	Friable	Good
S-01	13-03-02898-2	Ceiling Texture	Basement, Bathroom #1	ND	Friable	Good
S-01	13-03-02898-3	Ceiling Texture	Basement, Bathroom #1	ND	Friable	Good
S-02	**13-03-02898-4**	**Drywall, Tape & Joint Compound**	**Basement, Bathroom #1**	**ND**	**Friable**	**Good**
S-02	**13-03-02898-5**	**Drywall, Tape & Joint Compound**	**Basement, Hallway**	**Drywall - ND Joint Comp - 2% Chrysotile**	**Friable**	**Good**
S-02	**13-03-02898-6**	**Drywall, Tape & Joint Compound**	**Basement, Hallway**	**ND**	**Friable**	**Good**
S-02	**13-03-02898-20**	**Drywall, Tape & Joint Compound**	**1st Floor, Bar, Dance Floor**	**ND**	**Friable**	**Good**
S-02	**13-03-02898-21**	**Drywall, Tape & Joint Compound**	**1st Floor, Café**	**ND**	**Friable**	**Good**
S-02	**13-03-02898-44**	**Drywall, Tape & Joint Compound**	**2nd Floor, Sound Room**	**ND**	**Friable**	**Good**
S-02	**13-03-02898-45**	**Drywall, Tape & Joint Compound**	**2nd Floor, Sound Room**	**ND**	**Friable**	**Good**
S-03	**13-03-02898-7**	**Spray on Fireproofing**	**Basement, On Beams**	**15% Chrysotile**	**Friable**	**Good**
S-03	**13-03-02898-8**	**Spray on Fireproofing**	**Basement, On Beams**	**15% Chrysotile**	**Friable**	**Good**
S-03	**13-03-02898-9**	**Spray on Fireproofing**	**Basement, On Beams**	**15% Chrysotile**	**Friable**	**Good**
S-03	**13-03-02898-30**	**Spray on Fireproofing on Beam**	**1st Floor, Santa Clara Room**	**15% Chrysotile**	**Friable**	**Good**
S-03	**13-03-02898-31**	**Spray on Fireproofing on Beam**	**1st Floor, Santa Clara Room**	**12% Chrysotile**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – F & B BUILDING						
HA No.	Sample No.	Material Description	Material Locations	Asbestos Content	Friability	Condition
S-03	13-03-02898-46	Spray on Fireproofing	2nd Floor, San Rafael Room, Hard Lid (Drywall) Ceiling	3% Chrysotile	Friable	Good
S-03	13-03-02898-47	Spray on Fireproofing	2nd Floor, San Rafael Room, Hard Lid (Drywall) Ceiling	3% Chrysotile	Friable	Good
S-04	13-03-02898-13	Plaster	1st Floor, Kitchen, Dry Goods	ND	Friable	Good
S-04	13-03-02898-54	Plaster off Pipe Run	Dry Goods	Joint Comp - Trace <1% Chrysotile Skim Coat - ND Base Coat - Trace <1% Tremolite / Actinolite	Friable	Good
S-04	13-03-02898-55	Plaster	Dry Goods	Skim Coat - ND Base Coat - Trace <1% Tremolite / Actinolite	Friable	Good
S-05	13-03-02898-17	Acoustic Ceiling	1st Floor, Bar	3% Chrysotile	Friable	Good
S-05	13-03-02898-18	Acoustic Ceiling	1st Floor, Bar	2% Chrysotile	Friable	Good
S-05	13-03-02898-19	Acoustic Ceiling	1st Floor, Bar	3% Chrysotile	Friable	Good
S-05	13-03-02898-22	Acoustic Ceiling	1st Floor, Dance Floor	ND	Friable	Good
S-05	13-03-02898-23	Acoustic Ceiling	1st Floor, Dance Floor	ND	Friable	Good
S-05	13-03-03153-95	Acoustic Ceiling	1st Floor, Bar	ND	Friable	Good
S-05	13-03-03153-96	Acoustic Ceiling	1st Floor, Bar	ND	Friable	Good
S-06	13-03-02898-51	Acoustic Ceiling	2nd Floor, Attic Old	2% Chrysotile	Friable	Good
S-06	13-03-02898-52	Acoustic Ceiling	2nd Floor, Attic Old	2% Chrysotile	Friable	Good

ASBESTOS SURVEY TABLE – F & B BUILDING						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-06	**13-03-02898-53**	**Acoustic Ceiling**	**2nd Floor, Attic Old**	**2% Chrysotile Trace <1% Tremolite / Actinolite**	**Friable**	**Good**
S-07	13-03-02898-56	Exterior Stucco	East Side	ND	Friable	Good
S-07	13-03-02898-57	Exterior Stucco	North Front	ND	Friable	Good
S-07	13-03-02898-58	Exterior Stucco	Off Front of Café	ND	Friable	Good
S-07	13-03-02898-59	Exterior Stucco	North Side	ND	Friable	Good
S-07	13-03-02898-60	Exterior Stucco	South Side	ND	Friable	Good
S-07	13-03-02898-61	Exterior Stucco	Southwest	ND	Friable	Good
S-07	13-03-02898-62	Exterior Stucco	Southwest Ceiling	ND	Friable	Good
TSI-1	**13-03-02898-10**	**Hard Pack Elbows off Old Boiler**	**Basement, Boiler Room**	**Insulation - 25% Chrysotile / 5% Amosite Felt Vapor Barrier - 55% Chrysotile / 7% Amosite Covering/Jacket - ND**	**Friable**	**Good**
TSI-1	**13-03-02898-11**	**Hard Pack Elbows off Old Boiler**	**Basement, Boiler Room**	**Insulation - 30% Chrysotile Felt Vapor Barrier - 55% Chrysotile / 5% Amosite**	**Friable**	**Good**
TSI-1	**13-03-02898-12**	**Hard Pack Elbows off Old Boiler**	**Basement, Boiler Room**	**25% Chrysotile**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – SOUTH TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-01	13-03-03413-1	Concealed Spline 1'x1' Ceiling Tile	1st Floor, Hallway	ND	Friable	Good
M-01	13-03-03413-2	Concealed Spline 1'x1' Ceiling Tile	2nd Floor, Hallway	ND	Friable	Good
M-01	13-03-03413-3	Concealed Spline 1'x1' Ceiling Tile	5th Floor, Hallway	ND	Friable	Good
M-02	13-03-03413-6	Carpet Mastic	2nd Floor, Hallway	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – SOUTH TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-02	13-03-03413-7	Carpet Mastic	1st Floor, Hallway	ND	Non-Friable	Good
M-02	13-03-03413-8	Carpet Mastic	3rd Floor, Hallway	ND	Non-Friable	Good
M-03	13-03-03413-11	White Vinyl Tile	Service Elevator Lobby	ND	Non-Friable	Good
M-03	13-03-03413-12	White Vinyl Tile	Service Elevator Lobby	ND	Non-Friable	Good
M-03	13-03-03413-13	White Vinyl Tile and black mastic	Service Elevator Lobby	ND	Non-Friable	Good
M-03	13-04-00711-7	White Vinyl Tile and black mastic	Service Elevator Lobby	ND	Non-Friable	Good
M-03	13-04-00711-8	White Vinyl Tile and black mastic	Service Elevator Lobby	ND	Non-Friable	Good
M-03	13-04-00711-9	White Vinyl Tile and black mastic	Service Elevator Lobby	ND	Non-Friable	Good
M-04	13-03-03413-23	Window Putty	3rd Floor, Hallway	ND	Non-Friable	Good
M-04	13-03-03413-24	Window Putty	6th Floor, Hallway	ND	Non-Friable	Good
M-04	13-03-03413-25	Window Putty	8th Floor, Hallway	ND	Non-Friable	Good
S-01	13-03-03413-10	Acoustic Ceiling	Room 2204	ND	Friable	Good
S-01	13-03-03413-15	Acoustic Ceiling	Room 2317, Outside Bathroom	ND	Friable	Good
S-01	13-03-03413-16	Acoustic Ceiling	Room 2407	ND	Friable	Good
S-01	13-03-03413-19	Acoustic Ceiling	Room 2619	ND	Friable	Good
S-01	13-03-03413-20	Acoustic Ceiling	Room 2602	ND	Friable	Good
S-01	13-03-03413-26	Acoustic Ceiling	Room 2918	ND	Friable	Good
S-01	13-03-03413-4	Acoustic Ceiling	Room 2100	ND	Friable	Good
S-02	13-03-03413-14	Drywall, Tape & Joint Compound	Room 2318	ND	Friable	Good

ASBESTOS SURVEY TABLE – SOUTH TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-02	13-03-03413-17	Drywall, Tape & Joint Compound	Room 2424	ND	Friable	Good
S-02	13-03-03413-18	Drywall, Tape & Joint Compound	Room 2511	ND	Friable	Good
S-02	13-03-03413-21	Drywall, Tape & Joint Compound	Room 2701	ND	Friable	Good
S-02	13-03-03413-22	Drywall, Tape & Joint Compound	Room 2602	ND	Friable	Good
S-02	13-03-03413-5	Drywall, Tape & Joint Compound	Room 2118	ND	Friable	Good
S-02	13-03-03413-9	Drywall, Tape & Joint Compound	Room 2209	ND	Friable	Good

ASBESTOS SURVEY TABLE – WEST TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-01	13-03-03427-10	Blue/White 12x12 Floor Tile & Mastic	Paint Shop	ND	Non-Friable	Good
M-01	13-03-03427-8	Blue/White 12x12 Floor Tile & Mastic	Paint Shop	ND	Non-Friable	Good
M-01	13-03-03427-9	Blue/White 12x12 Floor Tile & Mastic	Paint Shop	ND	Non-Friable	Good
M-02	13-03-03427-13	Boiler Wrap	Boiler Room	ND	Friable	Good
M-02	13-03-03427-14	Boiler Wrap	Boiler Room	ND	Friable	Good
M-02	13-03-03427-15	Boiler Wrap	Boiler Room	ND	Friable	Good
M-03	13-03-03427-17	Carpet Mastic	Elevator	ND	Non-Friable	Good
M-03	13-03-03427-18	Carpet Mastic	Elevator	ND	Non-Friable	Good
M-03	13-03-03427-19	Carpet Mastic	Elevator	ND	Non-Friable	Good
M-04	13-03-03427-29	Carpet Leveling & Sealant Material	8th Floor, Hallway	ND	Non-Friable	Good
M-04	13-03-03427-30	Carpet Leveling & Sealant Material	5th Floor, Hallway	ND	Non-Friable	Good

ASBESTOS SURVEY TABLE – WEST TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
M-04	13-03-03427-31	Carpet Leveling & Sealant Material	4th Floor, Hallway	ND	Non-Friable	Good
M-04	13-04-00711-01	Carpet Mastic	4th Floor	ND	Friable	Good
M-04	13-04-00711-02	Carpet Mastic	Room 1272	ND	Friable	Good
M-04	13-04-00711-03	Carpet Mastic	9th Floor	ND	Friable	Good
M-06	13-03-03427-32	Tile Grout	Room 1789	ND	Friable	Good
M-06	13-03-03427-33	Tile Grout	Room 1789	ND	Friable	Good
M-06	13-03-03427-34	Tile Grout	Room 1789	ND	Friable	Good
M-07	13-03-03427-38	Window Putty	6th Floor	ND	Non-Friable	Good
M-07	13-03-03427-39	Window Putty	7th Floor	ND	Non-Friable	Good
M-07	13-03-03427-40	Window Putty	8th Floor	ND	Non-Friable	Good
M-08	**13-03-03427-46**	**Pipe Wrap to Blue and White Painted Pipe Insulation**	**Penthouse**	**ND**	**Friable**	**Good**
M-08	**13-03-03427-47**	**Pipe Wrap to Blue and White Painted Pipe Insulation**	**Penthouse**	**20% Chrysotile 45% Amosite**	**Friable**	**Good**
M-08	**13-03-03427-48**	**Pipe Wrap to Blue and White Painted Pipe Insulation**	**Penthouse**	**ND**	**Friable**	**Good**
M-09	13-03-03427-49	Pipe Wrap to Red Painted Pipe Insulation	Penthouse	ND	Friable	Good
M-09	13-03-03427-50	Pipe Wrap to Red Painted Pipe Insulation	Penthouse	ND	Friable	Good
M-09	13-03-03427-51	Pipe Wrap to Red Painted Pipe Insulation	Penthouse	ND	Friable	Good
S-01	13-03-03427-1	Exterior Stucco	East Side	ND	Friable	Good
S-01	13-03-03427-2	Exterior Stucco	East Side	ND	Friable	Good
S-01	13-03-03427-3	Exterior Stucco	East Side	ND	Friable	Good

ASBESTOS SURVEY TABLE – WEST TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-01	13-03-03427-4	Exterior Stucco	East Side	ND	Friable	Good
S-01	13-03-03427-5	Exterior Stucco	N.E. Corner	ND	Friable	Good
S-01	13-03-03427-6	Exterior Stucco	North Side	ND	Friable	Good
S-01	13-03-03427-7	Exterior Stucco	West Side	ND	Friable	Good
S-02	**13-03-03427-11**	**Drywall, Tape & Joint Compound**	**Basement, Work Area**	**ND**	**Friable**	**Good**
S-02	**13-03-03427-12**	**Drywall, Tape & Joint Compound**	**Maintenance, Mechanical Shop**	**ND**	**Friable**	**Good**
S-02	**13-03-03427-22**	**Drywall, Tape & Joint Compound**	**TV Room**	**ND**	**Friable**	**Good**
S-02	**13-03-03427-25**	**Drywall, Tape & Joint Compound**	**Room 1967**	**Tape - ND Joint Comp - 2% Chrysotile**	**Friable**	**Good**
S-02	**13-03-03427-28**	**Drywall, Tape & Joint Compound**	**Room 1871**	**Drywall - ND Tape - ND Joint Comp - 2% Chrysotile**	**Friable**	**Good**
S-02	**13-03-03427-44**	**Drywall, Tape & Joint Compound**	**Room 1678**	**Drywall - ND Joint Comp - 2% Chrysotile**	**Friable**	**Good**
S-02	**13-03-03427-45**	**Drywall, Tape & Joint Compound**	**Room 1477**	**Drywall - ND Joint Comp - 2% Chrysotile**	**Friable**	**Good**
S-02	**13-04-00711-04**	**Textured Ceiling Material Over Drywall**	**9th Floor, Hallway**	**ND (contaminated by joint compound)**	**Friable**	**Good**
S-02	**13-04-00711-05**	**Textured Ceiling Material Over Drywall**	**7th Floor, Hallway**	**ND (contaminated by joint compound)**	**Friable**	**Good**
S-02	**13-04-00711-06**	**Textured Ceiling Material Over Drywall**	**4th Floor, Hallway**	**ND (contaminated by joint compound)**	**Friable**	**Good**

ASBESTOS SURVEY TABLE – WEST TOWER						
HA No.	**Sample No.**	**Material Description**	**Material Locations**	**Asbestos Content**	**Friability**	**Condition**
S-03	13-03-03427-16	Plaster Wall	Boiler Room	ND	Friable	Good
S-03	13-03-03427-20	Plaster Ceiling	Boiler Room	ND	Friable	Good
S-03	13-03-03427-21	Plaster Wall	TV Room	ND	Friable	Good
S-04	**13-03-03427-26**	**Acoustic Popcorn**	**Room 1967**	**10% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-27**	**Acoustic Popcorn**	**Room 1871**	**10% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-35**	**Acoustic Popcorn**	**Room 1786**	**10% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-36**	**Acoustic Popcorn**	**Room 1783**	**10% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-41**	**Acoustic Popcorn**	**Room 1678**	**12% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-42**	**Acoustic Popcorn**	**Room 1578**	**12% Chrysotile**	**Friable**	**Good**
S-04	**13-03-03427-43**	**Acoustic Popcorn**	**Room 1477**	**10% Chrysotile**	**Friable**	**Good**

ND = Not Detected

ATTACHMENT C
ASBESTOS LABORATORY RESULTS AND CHAIN OF CUSTODY

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-02898

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/22/2013
Analyzed Date: 03/22/2013
Reported Date: 03/22/2013

Project/Test Address: 11131368; El Segundo, CA

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-001	01		White Brittle; Off-White Pliable; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-02898-002	02		White Brittle; Off-White Pliable; Inhomogeneous	NAD	1% Cellulose 1% Fibrous Glass 98% Non-Fibrous
13-03-02898-003	03		White Brittle; Off-White Pliable; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-02898-004A	04	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	12% Cellulose 8% Fibrous Glass 80% Non-Fibrous
13-03-02898-004B	04	Seam Tape	Pale Beige Fibrous; Inhomogeneous	NAD	97% Cellulose 3% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-004C	04	Joint Comp.	White to Off-White Brittle; Homogeneous	NAD	1% Cellulose 1% Fibrous Glass 98% Non-Fibrous
13-03-02898-005A	05	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	15% Cellulose 7% Fibrous Glass 78% Non-Fibrous
13-03-02898-005B	05	Joint Comp.	Pale Beige Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-02898-006	06		White to Off-White Brittle; Off-White/Beige Pliable; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-02898-007	07		Pale Gray Fibrous; Homogeneous	15% Chrysotile	85% Non-Fibrous
			Total Asbestos:	15%	
13-03-02898-008	08		Pale Gray Fibrous; Homogeneous	15% Chrysotile	85% Non-Fibrous
			Total Asbestos:	15%	
13-03-02898-009	09		Pale Gray Fibrous; Homogeneous	15% Chrysotile	85% Non-Fibrous
			Total Asbestos:	15%	
13-03-02898-010A	10	Insulation	Off-White Fibrous; Homogeneous	25% Chrysotile 5% Amosite	25% Fibrous Glass 45% Non-Fibrous
			Total Asbestos:	30%	

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-010B	10	Other *	Black Fibrous; Homogeneous	55% Chrysotile 7% Amosite	38% Non-Fibrous
			Total Asbestos:	62%	
* Felt Vapor Barrier-Type Material					
13-03-02898-010C	10	Covering/ Jacket	Tan Fibrous; Beige/Silver/Blue Pliable; Inhomogeneous	NAD	70% Cellulose 1% Fibrous Glass 1% Synthetic 28% Non-Fibrous
13-03-02898-011A	11	Insulation	Off-White Fibrous; Homogeneous	30% Chrysotile	30% Fibrous Glass 40% Non-Fibrous
			Total Asbestos:	30%	
13-03-02898-011B	11	Other *	Black Fibrous; Homogeneous	55% Chrysotile 5% Amosite	40% Non-Fibrous
			Total Asbestos:	60%	
* Felt Vapor Barrier-Type Material					
13-03-02898-012	12		Off-White Fibrous; Homogeneous	25% Chrysotile	30% Fibrous Glass 45% Non-Fibrous
			Total Asbestos:	25%	
13-03-02898-013A	13	Base Coat	Gray Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-02898-013B	13	Skim Coat	White Brittle; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-014	14		Green Brittle; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-015	15		Green Brittle; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-016	16		Green Brittle; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-017	17		Tan to Dark Gray Brittle; White Foam-Like; Blue Pliable; Inhomogeneous	3% Chrysotile	1% Talc 96% Non-Fibrous
			Total Asbestos:	3%	
Chrysotile present in tan to dark gray texturing compound-type (main) layer.					
13-03-02898-018	18		Off-White Brittle; White Foam-Like; Blue Pliable; Inhomogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
Chrysotile present in off-white texturing compound-type (main) layer.					
13-03-02898-019	19		Dark Gray Brittle; White Foam-Like; Blue Pliable; Inhomogeneous	3% Chrysotile	1% Talc 96% Non-Fibrous
			Total Asbestos:	3%	
Chrysotile present in dark gray texturing compound-type (main) layer.					
13-03-02898-020	20		White/Pale Pink Brittle; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-021	21		White Brittle; Off-White/Beige Pliable; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-022	22		White Brittle; Light Blue Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 1% Fibrous Glass 98% Non-Fibrous
13-03-02898-023	23		Off-White Brittle; Beige/Blue Pliable to Brittle; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-024	24		Yellow to Dark Gray Adhesive; Homogeneous	NAD	3% Cellulose 1% Fibrous Glass 3% Synthetic 93% Non-Fibrous
13-03-02898-025	25		Yellow to Dark Gray Adhesive; Homogeneous	NAD	3% Cellulose 3% Synthetic 94% Non-Fibrous
13-03-02898-026	26		Yellow to Dark Gray Adhesive; Homogeneous	NAD	3% Cellulose 1% Fibrous Glass 4% Synthetic 92% Non-Fibrous
13-03-02898-027	27		Pale Gray to Tan Fibrous; White Brittle; Inhomogeneous	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
13-03-02898-028	28		Pale Gray to Tan Fibrous; White Brittle; Inhomogeneous	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-029	29		Pale Gray to Tan Fibrous; White Brittle; Inhomogeneous	NAD	40% Cellulose 40% Fibrous Glass 20% Non-Fibrous
13-03-02898-030	30		Pale Gray Fibrous; Homogeneous	15% Chrysotile	85% Non-Fibrous
			Total Asbestos:	15%	
13-03-02898-031	31		Pale Gray Fibrous; Homogeneous	12% Chrysotile	2% Cellulose 2% Fibrous Glass 84% Non-Fibrous
			Total Asbestos:	12%	
13-03-02898-032A	32	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-032B	32	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-032C	32	Underlay-ment	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-033A	33	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-033B	33	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-034A	34	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-034B	34	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-034C	34	Sheet Vinyl	Brown Vinyl; Homogeneous	NAD	35% Cellulose 65% Non-Fibrous
13-03-02898-034D	34	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-035A	35	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-035B	35	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-036A	36	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-036B	36	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-036C	36	Underlay-ment	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-036D	36	Mastic	Black Tar-Like; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
13-03-02898-037A	37	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-037B	37	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-037C	37	Underlay-ment	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-037D	37	Mastic	Black Tar-Like; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
13-03-02898-038A	38	Cove Base	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-038B	38	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-039A	39	Cove Base	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-039B	39	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-040A	40	Cove Base	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-040B	40	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-041A	41	Cove Base	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-041B	41	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-042A	42	Cove Base	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-042B	42	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-043A	43	Cove Base	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-043B	43	Mastic	Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-044A	44	Drywall	White Chalky; Homogeneous	NAD	12% Cellulose 3% Fibrous Glass 85% Non-Fibrous
13-03-02898-044B	44	Tape	White Fibrous; Homogeneous	NAD	90% Cellulose 10% Non-Fibrous
13-03-02898-044C	44	Joint Comp.	White Granular; Homogeneous	NAD	90% Cellulose 10% Non-Fibrous
13-03-02898-045A	45	Drywall	White Chalky; Homogeneous	NAD	12% Cellulose 3% Fibrous Glass 85% Non-Fibrous
13-03-02898-045B	45	Tape	White Fibrous; Homogeneous	NAD	90% Cellulose 10% Non-Fibrous
13-03-02898-045C	45	Joint Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-046	46		Tan Granular; Homogeneous	3% Chrysotile	2% Cellulose 95% Non-Fibrous
			Total Asbestos:	3%	
13-03-02898-047	47		Tan Granular; Homogeneous	3% Chrysotile	2% Cellulose 95% Non-Fibrous
			Total Asbestos:	3%	
13-03-02898-048A	48	Tile	Brown Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-02898-048B	48	Mastic	Black Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-049A	49	Tile	Brown Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-02898-049B	49	Mastic	Black Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-050A	50	Tile	Brown Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-02898-050B	50	Mastic	Black Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-051	51		Tan Granular; White Paint-Like; Inhomogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
Chrysotile present in tan granular material.					
13-03-02898-052	52		Tan Granular; White Paint-Like; Inhomogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
Chrysotile present in tan granular material.					
13-03-02898-053	53		Tan Granular; White Paint-Like; Inhomogeneous	2% Chrysotile Trace <1% Trem/Actin*	98% Non-Fibrous
			Total Asbestos:	2%	
*Tremolite/Actinolite Series Asbestos and Chrysotile present in tan granular material.					
13-03-02898-054A	54	Joint Comp.	White Granular; Paint-Like; Inhomogeneous	Trace <1% Chrysotile	100% Non-Fibrous
			Total Asbestos:	Trace <1%	
<1% Chrysotile present in white granular material.					
13-03-02898-054B	54	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-054C	54	Base Coat	White Granular; Gold Vermiculite Platelets; Inhomogeneous	Trace <1% Trem/Actin*	100% Non-Fibrous
			Total Asbestos:	Trace <1%	
*Tremolite/Actinolite Series Asbestos present in white granular material.					
13-03-02898-055A	55	Skim Coat	White Granular; Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-055B	55	Base Coat	White Granular ; Gold Vermiculite Platelets; Inhomogeneous	Trace <1% Trem/Actin*	100% Non-Fibrous
				Total Asbestos: Trace <1%	
*Tremolite/Actinolite Series Asbestos present in white granular material.					
13-03-02898-056A	56	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-056B	56	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-057A	57	Skim Coat	White Granular; Cream Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-057B	57	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-058	58		White Granular; Cream Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-059A	59	Skim Coat	White Granular; Cream Paint-Like Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-059B	59	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-02898-060A	60	Skim Coat	White Granular; Yellow Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-060B	60	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-061A	61	Skim Coat	Tan Granular; Paint-Like; Inhomogeneous	NAD	2% Polyethylene 98% Non-Fibrous
13-03-02898-061B	61	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-02898-062A	62	Stucco I	White Granular; Vermiculite Platelets; Inhomogeneous	NAD	100% Non-Fibrous
13-03-02898-062B	62	Stucco II	Tan Granular; Paint-Like; Inhomogeneous	NAD	2% Polyethylene 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-02898

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 25-NIST REF, 18-M11995-3, 13-M11996-1

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Mark Case, Sami Hosn, Araceli Enzler

Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

62 PLM

EHS Laboratories™

Asbestos Chain-of-Custody

13-03-02898

Due Date:
03/22/2013
(Friday)
ER M Inv

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: EBI Consulting Address: 6876 Susquehanna Trail South City/State/Zip: York, Pennsylvania 17403

Phone: 443-528-2318 Fax: _____ E-mail: dkennedy@ebiconsulting.com Acct. Number: 22-4564 A

Project Name / Testing Address: 11131368 **City/State (Required):** El Segundo, CA

Collected by: Kurt Baumann Purchase Order Number: 11131368

Turn Around Times: ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

_____ **1 - Day** _____ **2 - Day** _____ **3 - Day** ____**X (but 24 hour if needed)**____ **Same Day (Must Call Ahead)** _____ **Weekend (Must Call Ahead)**

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	62 PLM Bulk														Layer all
2	(SEE Attached														samples per
3															Dave 3-22-13
4															
5															
6															
7															
8															
9															
10															

Released by: Kurt Baumann Signature: Kurt Baumann Date/Time: 3/21/1550

Received by: STONE Signature: STONE Date/Time: 3-22-13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel F+B Building DATE: 3/20/13

SAMPLED BY: Kurt George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION Basement	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
01	Ceiling Texture Bathroom #1	G	150 SF	S-01
02	Ceiling Texture Bathroom 1	G	150 SF	S-01
03	Ceiling Texture Bathroom #1	G	150 SF	S-01
04	Drywall Tape + Joint Bath #1	G	>20K	S-02
05	Drywall Tape + Joint Hallway	G	>20K	S-02
06	Drywall Tape + Joint Hall way	G	>20K	S-02
07	Sprayed on Fireproofing on Beams	G	>10K	S-03

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel F+B DATE: 3/20/13

SAMPLED BY: Kurt/George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
08	FIRE proofing ON BEAMS	6	>10K	S-03
09	FIREPROOFING ON BEAMS	6	>10K	S-03
10	~~Hard~~ Pack Elbows off of ~~Boiler~~ Boiler	6	4 Elbows	TS1-1
11	~~Hard~~ pack Elbows off old Boiler	6	4 Elbows	TS1-1
12	~~Hard~~ Pack Elbows off old Boiler	6	4 Elbows	TS1-1
↓ First 13	Floor Plaster - Dry Goods - Kitchen	6	1000 sf	S-04
14	GREEN 12"x12 Floor tile & Mastic TERRAZO MENS BATH NEAR ENTRANCE OF CAFE	6	375 SF	M-01

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel F+B DATE: 3/20/13

SAMPLED BY: Kurt / George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
15	GREEN 12x12 Floor Tile TERRAZZO Mens Bath Near Entrance of Cafe	6	375	M-01
16	GREEN 12 x 12 Floor Tile TERRAZZO Womens Bath Near Entrance of Cafe	6	375	M-01
17	Acoustic Ceiling BAR	6	4320	S-05
18	Acoustic Ceiling BAR	6	4320	S-05
19	Acoustic Ceiling BAR	6	4320	S-05
20	Drywall Tape + Joint BAR - Dance Floor	6	[illegible]	S-02
21	Drywall Tape + Joint CAFE	6		S-02

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SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel F+B DATE: 3/20/13

SAMPLED BY: Kurt / George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
22	Acoustic Ceiling Dance Floor	G	9320	S-05
23	Acoustic ceiling Dance Floor	G	9320	S-05
24	Carpet Mastic Santa Clara Room	G	710	M-02
25	Carpet Mastic Santa Clara Room	G	710	M-02
26	Carpet Mastic Santa Clara Room	G	710	M-02
27	Drop ceiling tile Santa Clara Room	G	600	M-03
28	Drop ceiling tile Santa Inez Room	G	1200	M-03

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PROJECT NAME: Hacienda Hotel F+B DATE: 3/20/13

SAMPLED BY: Kurt/George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
29	Deep ceiling Tile Santa Inez Room	6	1200	M-03
30	Spray on Fireproofing on Beam Santa Clara Room	6		S-03
31	Spray on Fireproofing on Beam Above Santa Inez	6		S-03
Second Floor 32	12"x12" Floor Tile + Mastic White Banquet Set-up Room	6	720	M-04
33	12"x12" Floor Tile + Mastic White Banquet Set-up Room	6	720	M-04
34	12"x12" Floor tile + Mastic white Banquet Set-up Room	6	720	M-04
35	12"x12" Floor tile + Mastic Beige Sound Room	6	63 SF	M-05

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PROJECT NAME: Hacienda Hotel F+B DATE: 3/20/13

SAMPLED BY: Kurt George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
36	12"x12" Floor Tile + Mastic Beige Sound Room	G	63 SF	M-05
37	12"x12" Floor Tile + Mastic Beige Sound Room	G	63 SF	M-05
38	Beige Baseboard + Mastic Sound Room	G	32 SF	M-06
39	Beige Baseboard + Mastic Sound Room	G	32 SF	M-06
40	Beige Baseboard + Mastic Sound Room	G	32 SF	M-06
41	Gray Baseboard + Masti Banquet Set-up Room	G	112 SF	M-07
42	Gray Baseboard + Mastic Banquet Set-up Room	G	112 SF	M-07

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OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel DATE: 3-20-13

SAMPLED BY: Kurt/George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
43	GRAY BASEBOARD & MASTIC BANQUET SET-UP ROOM	G	112 SF	M-07
44	DRYWALL TAPE & JOINT SOUND ROOM	G		S-02
45	DRYWALL TAPE & JOINT STORAGE ROOM	G		S-02
46	SPRAY ON FIREPROOF SAN RAFAEL ROOM HARD LID	G		S-03
47	SPRAY ON FIREPROOFING SAN RAFAEL HARD LID	G		S-03
48	9"x9" BROWN FT & MASTIC Attic	G	350	M-08
49	9"x9" FLOOR TILE & MASTIC Attic BROWN	G	350	M-08

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel DATE: 3-20-13

SAMPLED BY: Kurt/George KRE PROJECT #: 13013

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
50	9"x9" Floor tile + MASTIC BROWN Attic	G	350	M-08
51	Acoustic ceiling Attic old	G	400	S-06
52	Acoustic ceiling Attic old	G	400	S-06
53	Acoustic ceiling Attic old	G	400	S-06
54	Plaster off Pipe Run Dry Goods	G	1000	S-04
55	Plaster Dry Goods	G	1000	S-04
56	Exterior Stucco East Side	G		S-07

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel DATE: 3-20-13

SAMPLED BY: Kurt KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
57	Stucco Exterior North Front	6		S-07
58	Exterior Stucco off Front of MAFE	6		S-07
59	Exterior Stucco North Side	6		S-07
60	Exterior Stucco South Side	6		S-07
61	Exterior Stucco South West	6		S-07
62	Exterior Stucco South West Ceiling	6		S-07

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-03069

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/25/2013
Analyzed Date: 03/25/2013, 03/26/2013
Reported Date: 04/05/2013

Project/Test Address: 11131368; El Segundo, CA

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-001A	1	Tile	Green Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-001B	1	Mastic	Black Adhesive; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-002A	2	Tile	Green Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-002B	2	Mastic	Black Adhesive; Homogeneous	4% Chrysotile	96% Non-Fibrous
			Total Asbestos:	4%	
13-03-03069-003A	3	Tile	Green Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-003B	3	Mastic	Black Adhesive; Homogeneous	4% Chrysotile	96% Non-Fibrous
			Total Asbestos:	4%	
13-03-03069-004A	4	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-004B	4	Mastic	Black Adhesive; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-005A	5	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-005B	5	Mastic	Black Adhesive; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-006A	6	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-006B	6	Mastic	Black Adhesive; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-007	7		Tan Chalky; Brown Paint-Like; Inhomogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	

Chrysotile present in chalky material.

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-008A	8	Drywall	White Chalky; Brown Fibrous; Inhomogeneous	NAD	25% Cellulose 75% Non-Fibrous
13-03-03069-008B	8	Joint Comp.	White Chalky; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03069-009	9		Clear Pliable; Black Tar-Like; Blue Paint-Like; Inhomogeneous	NAD	5% Synthetic 95% Non-Fibrous
13-03-03069-010A	10	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-010B	10	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-011A	11	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-011B	11	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-012A	12	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-012B	12	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-013A	13	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-013B	13	Mastic	Yellow Adhesive; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-014A	14	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-014B	14	Mastic	Yellow Adhesive; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-015A	15	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-015B	15	Mastic	Yellow Adhesive; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-016	16		Beige Powdery; Homogeneous	6% Chrysotile 2% Amosite	5% Cellulose 25% Fibrous Glass 62% Non-Fibrous
			Total Asbestos:	8%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-017A	17	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-017B	17	Mastic	Black/Brown Adhesive; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-018A	18	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-018B	18	Mastic	Brown Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-019A	19	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-03-03069-019B	19	Mastic	Brown Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-020A	20	Tile	Black Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
13-03-03069-020B	20	Mastic	Brown Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-021A	21	Tile	Black Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
13-03-03069-021B	21	Mastic	Brown Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-022A	22	Tile	Black Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
13-03-03069-022B	22	Mastic	Brown Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-023	23		Tan Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-024	24		Tan Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-025	25		Tan Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-026A	26	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-026B	26	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-027A	27	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-027B	27	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-028A	28	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-028B	28	Base Coat	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-029	29		Brown Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-030	30		Tan Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-031A	31	Tile	Beige Vinyl; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-031B	31	Mastic	Black Adhesive; Homogeneous	NAD	5% Cellulose 95% Non-Fibrous
13-03-03069-032A	32	Leveling Comp.	Tan Granular; Homogeneous	NAD	4% Cellulose 96% Non-Fibrous
13-03-03069-032B	32	Mastic	Yellow Adhesive; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03069-033A	33	Tile	Tan/Brown Vinyl; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
13-03-03069-033B	33	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-034A	34	Tile	Brown Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
13-03-03069-034B	34	Mastic	Black Tar-Like; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-035A	35	Tile	Brown Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-035B	35	Mastic	Black Tar-Like; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-036A	36	Tile	Brown Vinyl; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
13-03-03069-036B	36	Mastic	Black Tar-Like; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-037A	37	Drywall	White Powder; Brown Fibrous; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-03-03069-037B	37	Joint Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-038	38		Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-039	40		White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-040A	41	Drywall	White Powder; Brown Fibrous; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-040B	41	Joint Comp.	Tan Granular; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
13-03-03069-041	42		Beige/Off-White Brittle; White Foam-Like; Inhomogeneous	NAD	1% Cellulose 1% Talc 98% Non-Fibrous
13-03-03069-042	43		Brown Vinyl-Like; Tan Fibrous; Inhomogeneous	NAD	45% Cellulose 55% Non-Fibrous
13-03-03069-043	44		Brown Vinyl-Like; Tan Fibrous; Inhomogeneous	NAD	45% Cellulose 55% Non-Fibrous
13-03-03069-044	45		Brown Vinyl-Like; Tan Fibrous; Inhomogeneous	NAD	45% Cellulose 55% Non-Fibrous
13-03-03069-045	46		Yellow Pliable; White/Black Fibrous; Inhomogeneous	NAD	3% Cellulose 8% Fibrous Glass 7% Synthetic 82% Non-Fibrous
13-03-03069-046	47		Yellow Pliable; White/Black Fibrous; Inhomogeneous	NAD	3% Cellulose 8% Fibrous Glass 7% Synthetic 82% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-047	48		Yellow Pliable; White/Black Fibrous; Inhomogeneous	NAD	3% Cellulose 8% Fibrous Glass 7% Synthetic 82% Non-Fibrous
13-03-03069-048A	50	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-03-03069-048B	50	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03069-048C	50	Joint Comp.	Off-White Brittle; Homogeneous	2% Chrysotile	1% Cellulose 97% Non-Fibrous
			Total Asbestos:	2%	
13-03-03069-048D	50	Other *	Multi-Colored Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
* Surface Finish					
13-03-03069-049A	51	Mastic	Yellow Adhesive; Homogeneous	NAD	3% Cellulose 3% Synthetic 94% Non-Fibrous
13-03-03069-049B	51	Other *	Dark Gray Foam-Like; Homogeneous	NAD	1% Cellulose 2% Synthetic 97% Non-Fibrous
* Carpet Padding					

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-050A	52	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 1% Fibrous Glass 3% Synthetic 94% Non-Fibrous
13-03-03069-050B	52	Other *	Dark Gray Foam-Like; Homogeneous	NAD	1% Cellulose 3% Synthetic 96% Non-Fibrous
* Carpet Padding					
13-03-03069-051A	53	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 3% Synthetic 1% Hair 94% Non-Fibrous
13-03-03069-051B	53	Other *	Dark Gray Foam-Like; Homogeneous	NAD	2% Cellulose 3% Synthetic 95% Non-Fibrous
* Carpet Padding					
13-03-03069-052A	54	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-03-03069-052B	54	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03069-052C	54	Joint Comp.	Pale Beige Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-052D	54	Other *	Pale Pink/Beige Pliable to Brittle; Inhomogeneous	NAD	100% Non-Fibrous
* Surface Finish					
13-03-03069-053	55		Off-White Brittle to Coarse Powder; White Foam-Like; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-054A	56	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	22% Cellulose 2% Fibrous Glass 76% Non-Fibrous
13-03-03069-054B	56	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03069-054C	56	Joint Comp.	Pale Beige Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-03069-054D	56	Other *	Multi-Colored Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
* Surface Finish					
13-03-03069-055	57		Off-White Brittle to Coarse Powder; White Foam-Like; Inhomogeneous	NAD	2% Cellulose 1% Talc 97% Non-Fibrous
13-03-03069-056A	58	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	17% Cellulose 5% Fibrous Glass 78% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-056B	58	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03069-056C	58	Joint Comp.	Off-White Brittle; Homogeneous	2% Chrysotile	2% Cellulose 1% Fibrous Glass 95% Non-Fibrous
			Total Asbestos:	2%	
13-03-03069-056D	58	Other *	Multi-Colored Pliable to Brittle; White Pliable; Inhomogeneous	NAD	1% Cellulose 1% Synthetic 98% Non-Fibrous
* Surface Finish					
13-03-03069-057	59		Off-White Brittle; White Foam-Like; Inhomogeneous	6% Chrysotile	2% Cellulose 92% Non-Fibrous
			Total Asbestos:	6%	
Chrysotile present in off-white brittle texturing compound-type (main) layer.					
13-03-03069-058	60		Rust Brown Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-059	61		Rust Brown Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-060	62		Off-White Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-061	63		White Chalky; Tan Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-062	64		White Chalky; Tan Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03069-063	65		Tan Chalky; Tan Paint-Like; Inhomogeneous	Trace <1% Chrysotile	100% Non-Fibrous
			Total Asbestos:	Trace <1%	
Chrysotile present in tan chalky material.					
13-03-03069-064A	66	Tile	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-064B	66	Mastic	White Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-065A	67	Tile	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-065B	67	Mastic	White Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03069-066A	68	Tile	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-066B	68	Mastic	White Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-067	70		Yellow Adhesive; Homogeneous	NAD	3% Synthetic 97% Non-Fibrous
13-03-03069-068	71		Yellow Adhesive; Homogeneous	NAD	3% Synthetic 97% Non-Fibrous
13-03-03069-069	72		Yellow Adhesive; Homogeneous	NAD	2% Synthetic 98% Non-Fibrous
13-03-03069-070	73		Yellow Adhesive; Homogeneous	NAD	4% Synthetic 96% Non-Fibrous
13-03-03069-071	74		Yellow Adhesive; Homogeneous	NAD	4% Synthetic 96% Non-Fibrous
13-03-03069-072	75		Yellow Adhesive; Homogeneous	NAD	4% Synthetic 96% Non-Fibrous
13-03-03069-073	76		White Textured; White Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03069-074	79		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-075	80		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
13-03-03069-076	81		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
13-03-03069-077	82		Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	96% Cellulose 4% Non-Fibrous
13-03-03069-078	83		Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	96% Cellulose 4% Non-Fibrous
13-03-03069-079	84		Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	96% Cellulose 4% Non-Fibrous
13-03-03069-080A	85	Linoleum	Green Vinyl; White Fibrous; Inhomogeneous	NAD	7% Fibrous Glass 93% Non-Fibrous
13-03-03069-080B	85	Mastic	Orange/Black Adhesive; Inhomogeneous	NAD	3% Cellulose 97% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-081A	86	Linoleum	Green Vinyl; White Fibrous; Inhomogeneous	NAD	3% Fibrous Glass 97% Non-Fibrous
13-03-03069-081B	86	Mastic	Orange/Black Adhesive; Inhomogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-082A	87	Linoleum	Green Vinyl; White Fibrous; Inhomogeneous	NAD	5% Fibrous Glass 95% Non-Fibrous
13-03-03069-082B	87	Mastic	Orange/Black Adhesive; Inhomogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-083A	88	Other *	Tan Textured Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
* Textured Surfacing					
13-03-03069-083B	88	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-083C	88	Plaster	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-084A	89	Other *	Tan Textured Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
* Textured Surfacing					

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-084B	89	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-084C	89	Plaster	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-085A	90	Other *	Tan Textured Paint-Like; Homogeneous	NAD	100% Non-Fibrous
* Textured Surfacing					
13-03-03069-085B	90	Skim Coat	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-085C	90	Plaster	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-086A	92	Tile	Brown Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-086B	92	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-086C	92	Leveling Comp.	Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069
Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03069-087A	93	Tile	Brown Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-087B	93	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-087C	93	Leveling Comp.	Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-03-03069-088A	94	Tile	Brown Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-088B	94	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03069-088C	94	Leveling Comp.	Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03069

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 41-M1-1999-1, 5-M1-1991-1, 39-M1-1999-2, 65-M12003-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Kathy Sizemore, Christian H. Schaible, Mark Case

Reviewed By Authorized Signatory:



Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

Rev 1.0 (Revised On: 04/05/2013): Removed narrative from samples 43-45.

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Asbestos Chain-of-Custody

96 PLM

13-03-03069

Due Date:
03/26/2013
(Tuesday)
ER M Inv

*Analyze all layers - Per Darek @ 3/25/13

Company Name: EBI Consulting Address: 6876 Susquehanna Trail South City/State/Zip: York, Pennsylvania 17403

Phone: 443-528-2318 Fax: E-mail: dkennedy@ebiconsulting.com Acct. Number: 22-4564 A

Project Name / Testing Address: 11131368 City/State (Required): El Segundo, CA

Collected by: Kurt Bahmann Purchase Order Number: 11131368

Turn Around Times: ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

_____ 1 - Day _____ 2 - Day _____ 3 - Day ____X (but 24 hour if needed)____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	96 PLM														
2	Bulk Samples														
3	(See Attached)														
4															
5															
6															
7															
8															
9															
10															

Released by: Kurt Bahmann Signature: Date/Time: 3/22 1715

Received by: UPS Signature: Date/Time: 3/25/13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel 4 story DATE: 3/21/13

SAMPLED BY: Kurt / George KRE PROJECT #: 130279

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
01	GREEN 9"x9" floor tile and Mastic Engineers office	6	84 SF	M-01
02	GREEN 9x9 Floor tile & Mastic Engineers office	6	84 SF	M-01
03	GREEN 9x9 floor tile & Mastic Engineers office	6	84 SF	M-01
04	White 12"x12" floor tile & Mastic Engineers office	6	300+64+168	M-02
05	White 12"x12" floor tile & Mastic Engineers office	6		M-02
06	White 12"x12" floor tile & Mastic Engineers office	6		M-02
07	Acoustic ceiling Engineers office	6		S-01

MSW 3/25/13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-21-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1303~~8~~

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
08	Drywall Tape + Joint Compound	6	~~S~~ 20K	S-02
09	Hard Pack Elbows Mechanical Room	6	2	TS1-01
10	White w/ GRAY streaks 12"x12" Floor Tile + Mastic	6	60+60	M-03
11	White w/ Gray streaks 12"x12" Floor tile + Mastic	6	60+60	M-03
12	White w/ GRAY streaks 12"x12" Floor tile + Mastic	6	60+60	M-03
13	Yellow ~~White~~ Diamond 12"x12 floor tile + Mastic	6	70	M-04
14	Yellow Diamond 12x12 Floor tile	6	70	M-04

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SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-21-13

SAMPLED BY: Kurt / George KRE PROJECT #: 13029

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
15	Yellow Diamond 12x12 floor tile + Mastic	6	70	M-04
16	HARD Pack Elbow Mechanical Room #2	6	8 Elbows	~~M-04~~ TSI-02
17	White 9"x9" Floortile + Mastic	6	100 SF	M-05
18	White 9x9 Floortile + Mastic	6	100 SF	M-05
19	White 9x9 Floor tile + Mastic	6	100 SF	M-05
20	Black 9x9 Floor tile + Mastic	6	200 SF	M-06
21	Black 9x9 floor tile + Mastic	6	200 SF	M-06

MSWH 3/25/13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
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3069

PROJECT NAME: Hacienda Hotel DATE: 3-21-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1308

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
22	BASIC 9x9 floor tile & Mastic	G	200 SF	M-06
23	Plaster Ceiling Store Room	G	1000 SF	S-03
24	Plaster Ceiling Store Room	G	2000 SF	S-03
25	Plaster Ceiling Store Room	G	2000	S-03
26	Exterior Stucco South Side Basement	G		S-04
27	Exterior Stucco West Side Basement	G		S-04
28	Exterior Stucco South Side Basement	G		S-04

MSWIT 3/25/13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3049

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1302~~3~~1

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
29	Plaster Ceiling Store Room	6	2000	S-03
30	Plaster ceiling	6	2000	S-03
31	Gray w/ Black ~~Streaks~~ 12x12 Floor tile & Mastic Penthouse HALL	6	45	M-07
32	Gray w Black Streaks 12x12 floor tile & Mastic Penthouse HALL	6	45	M-07
33	Gray w Black streaks 12x12 floor tile Penthouse Hall	6	45	M-07
34	Brown w Black Specks 9x9 ft² Mastic Penthouse RM 1	6	120	M-08
35	Brown w Black Specks 9x9 ft² Mastic Penthouse RM 1	6	120	M-08

UNSIGNED 3/25/13

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SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / Greorge KRE PROJECT #: 1303

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
36	Beaun + Black Speck 9x9 Floor tile Penthouse RM 1	6	15x8 120	M-08
37	Drywall TAPE + Joint Penthouse	6		S-02
38	EXTERIOR Stucco Penthouse Stairwell	6		S-04
39	Rm 1543 Acoustic Ceiling 4th Floor	6	300 SF	S-01
40	Rm Hallway Acoustic Ceiling 4th Floor	6		S-01
41	Drywall TAPE + Joint LAUNDRY ROOM 4th Floor	6		S-02
42	Acoustic Ceiling 1st Floor Hallway	6		S-01

UNSWN 3/25/13

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OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-21-13

SAMPLED BY: Kurt / Greg KRE PROJECT #: 1302[illegible]

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
43	BROWN LINOLEUM HOUSE KEEPING ROOM 1ST FLOOR	6	65	M-09
44	BROWN LINOLEUM HOUSE KEEPING ROOM 1ST	6	65	M-09
45	BROWN LINOLEUM HOUSE KEEPING ROOM 1ST FLOOR	6	65	M-09
46	MASTIC FROM LINOLEUM	6	65	M-10
47	MASTIC FROM LINOLEUM	6	65	M-10
48	MASTIC FROM LINOLEUM	6	65	M-10
49	ACOUSTIC CEILING ROOM 1138	6		S-01

UNSWD 3/25/13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1302~~3~~4

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
50	Drywall tape & Joint compound Room 1138 20x11	G		S-02
51	Carpet Mastic ~~Room~~ ~~1st~~ Hallway 1st Floor	G		M-11
52	Carpet Mastic 1st Floor Hallway	G		M-11
53	Carpet Mastic 1st Floor Hallway	G		M-11
54	Drywall tape & Joint 2nd Floor 1231 30x20	G		S-02
55	Acoustic Ceiling hallway outside Room 1231	G		S-01
56	Drywall tape & joint compound Rm 1419 25x15	G		S-02

Room 1441 - 25X15

UNISWIL 3/25/13

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SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1303

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
57	Acoustic ceiling Hallway outside Rm 1412	G		S-01
58	Dry wall Tape & Joint Room 1251	G		S-02
59	Acoustic Ceiling Room 1251	G		S-01
60	Grout from Brown Bathroom Room 1258	G		S-05
61	Grout from White Bathroom Room 1251	G		S-05
62	Grout from White Bathroom # 1405	G		S-05
63	Texture ceiling + Wall Compound 1503	G	900	S-06

Suite 1403 - 22'x17'
Room 1201 - 15x10
2ND Floor Executive Room - 24x21

MSW 3/25/13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
64	Texture ceiling + Wall compound Suite 1503	G	900	S-06
65	Texture ceiling + Wall Suite 1403	G	900	S-06
66	Black + White Rubberized Floor tile + Mastic Gift Shop 1st Floor	G	23x24 552	M-12
67	Black + White Rubberized Floor + Mastic Gift Shop 1st Floor	G	552	M-12
68	Black + White Rubberized Floor + Mastic Gift Shop 1st Floor	G	552 SF	M-12
69	Acoustic ceiling Gift Shop 1st Floor	G		S-01
70	Carpet Mastic old carpet in offices 1st Floor	G	750 SF	M-13

unsaw 3/25/13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 1303

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
71	Carpet Mastic off o/o Carpet IN 1st Floor offices	6	20x11' + 20x12 + 12x8 24x8 750SF	M-13
72	Carpet Mastic off o/o Carpet in 1st Floor offices	6	750 SF	M-13
73	Mastic off oldest carpet Executive offices 1st Floor	6	23x23 529	M-14
74	Mastic off oldest carpet Executive offices 1st Floor	6	529	M-14
75	Mastic off oldest carpet Executive offices 1st Floor	6	529	M-14
76	Acoustic Ceiling Directors Conference Room 1st Floor	6		S-01
77	Drywall Tape + Joint Compound Barber shop 1st Floor	6		S-02

55c

Unsuit 3/25/13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt/Treoye KRE PROJECT #: 1302~~9~~

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
78	Drywall Tape + Joint Conference Room 1st Flwr	6		S-02
79	2'x4' Dropped ceiling tile Accounting	6	100	M-15
80	2'x4' Dropped Ceiling Tile Accounting	6	100	M-15
81	2'x4' Dropped ceiling tile Accounting office	6	100	M-15
82	Concealed Spline Ceiling Tiles 12x12 Accounting	6	36	M-16
83	Concealed Spline Ceiling Tiles 12x12 Accounting	6	36	M-16
84	Concealed Spline Ceiling Tiles 12x12 Accounting	6	36	M-16

MSWW @ 3/25/13

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SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3069

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt / George KRE PROJECT #: 13028

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
85	GRAY SPECKLED LINOLEUM UNDER STAIRWELL ACCOUNTING office	6	12^10 120	M-17
86	GRAY SPECKLED LINOLEUM UNDER STAIRWELL ACCOUNTING office	6	120 SF	M-17
87	GRAY SPECKLED LINOLEUM UNDER STAIRWELL ACCOUNTING office	6	120 SF	M-17
88	EXTERIOR STUCCO EAST SIDE 1st FLOOR	6		S-04
89	EXTERIOR STUCCO EAST SIDE 1st FLOOR	6		S-04
90	EXTERIOR STUCCO WEST SIDE 1st FLOOR	6		S-04
91	EXTERIOR STUCCO WEST SIDE 1st FLOOR	6		S-04

mawu 3/25/13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3067

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt/George KRE PROJECT #: 13029

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
92	RED Floor tile + Mastic Elevator	6	40 SF	M-18
93	RED Floor tile + Mastic Elevator	6	40 SF	M-18
94	RED Floor tile + Mastic Elevator	6	40 SF	M-18
95	Acoustic ceiling Bar in F+B Bldg	G	9320	S-05
96	Acoustic ceiling Bar in F+B Bldg	G	9320	S-05

MSW 3/25/13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-03153

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/25/2013
Analyzed Date: 03/25/2013
Reported Date: 03/25/2013

Project/Test Address: 11131368; El Segundo, CA

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03153-001	95		White Granular; Homogeneous	NAD	100% Non-Fibrous
13-03-03153-002	96		White Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03153

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 5-M1-1991-1

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Christian H. Schaible

Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Asbestos Chain-of-Custody

2 PLM

13-03-03153

Due Date:
03/25/2013
(Monday)
ER M Inv

*Analyze all layers - Per Darek @ 3/25/13

Company Name: EBI Consulting
Address: 6876 Susquehanna Trail South
City/State/Zip: York, [illegible]

Phone: 443-528-2318
Fax:
E-mail: dkennedy@ebiconsulting.com
Acct. Number: 22-4564 A

Project Name / Testing Address: 11131368
City/State (Required): El Segundo, CA

Collected by: Kurt Baumann
Purchase Order Number: 11131368

Turn Around Times: ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

_____ 1 - Day _____ 2 - Day _____ 3 - Day ____X (but 24 hour if needed) ____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	96 PLM Bulk Samples (See Attached)														
2															
3															
4															
5															
6															
7															
8															
9															
10															

Released by: Kurt Baumann — Signature: [signature] — Date/Time: 3/22 1715

Received by: [illegible] — Signature: [signature] — Date/Time: 3/25/13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

3667

PROJECT NAME: Hacienda Hotel DATE: 3-22-13

SAMPLED BY: Kurt/George KRE PROJECT #: 13029

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
92	RED Floor tile + Mastic Elevator	6	40 SF	M-18
93	Red Floor tile + Mastic Elevator	6	40 SF	M-18
94	Red Floor tile + Mastic Elevator	6	40 SF	M-18
95	Acoustic ceiling Bar in E+B Bldg	6	9320	S-05
*96	Acoustic ceiling Bar in E+B Bldg	6	9320	S-05

mbw 3/25/13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-03404

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/26/2013
Analyzed Date: 03/26/2013
Reported Date: 03/26/2013

Project/Test Address: 11131368

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03404-001	1		Clear Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-03-03404-002	2		Clear Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-03-03404-003	3		Clear Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-03-03404-004	4		Gray Rubbery; Homogeneous	NAD	2% Polyethylene 98% Non-Fibrous
13-03-03404-005	5		Gray Rubbery; Homogeneous	NAD	2% Polyethylene 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03404
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03404-006	6		Gray Rubbery; Homogeneous	NAD	2% Polyethylene 98% Non-Fibrous

QC Sample: 18-M11995-3
QC Blank: SRM 1866 Fiberglass
Reporting Limit: 1% Asbestos
Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020
Analyst: Araceli Enzler

Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

EBI 22.4504

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

3404

6PLM

1113368 -per Dave 3-26-13 (TS)

PROJECT NAME: Hacienda Hotel A 3-25-13

SAMPLED BY: Kurt/George

13-03-03404

13004

Due Date: 03/26/2013 (Tuesday) ER M Inv

SI

SAMPLE NUMBER	DESCRIPTION & LOCATION			HOMOGENIOUS APPLICATION
1	window putty F+B Bldg / Restaurant	G	300 SF	M-10
2	window putty F+B Bldg / Restaurant	G	300 SF	M-10
3	window putty F+B Bldg / Restaurant	G	300 SF	M-10
4	window putty main Building (rear)	G	1350 SF	M-11
5	window putty main Building (rear)	G	1350 SF	M-11
6	window putty main Building (rear)	G	1350 SF	M-11
	Analyze ALL layers!			

JS Moore 3-26-13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-03413

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/26/2013
Analyzed Date: 03/27/2013
Reported Date: 03/27/2013

Project/Test Address: 11131368

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03413-001	01		Gray Fibrous; Homogeneous	NAD	35% Cellulose 45% Fibrous Glass 20% Non-Fibrous
13-03-03413-002	02		Beige Fibrous; Homogeneous	NAD	45% Cellulose 35% Fibrous Glass 20% Non-Fibrous
13-03-03413-003	03		Beige Fibrous; Homogeneous	NAD	45% Cellulose 35% Fibrous Glass 20% Non-Fibrous
13-03-03413-004	04		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-005A	05	Joint Comp.	Off-White Chalky; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03413
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03413-005B	05	Drywall	Off-White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 95% Non-Fibrous
13-03-03413-006	06		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-007	07		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-008	08		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-009A	09	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-009B	09	Drywall	White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 95% Non-Fibrous
13-03-03413-010	10		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-011	11		White Vinyl; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03413
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03413-012	12		White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-013A	13	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-013B	13	Mastic	Black Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-014A	14	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-014B	14	Drywall	Cream/Brown Fibrous; White Chalky; Inhomogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-03-03413-015	15		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-016	16		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-017A	17	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03413
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03413-017B	17	Drywall	White Chalky; Brown/Cream Fibrous; Inhomogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-03-03413-018A	18	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-018B	18	Drywall	Brown Chalky; Brown/Green Fibrous; Inhomogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-03-03413-019	19		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-020	20		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-021A	21	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-021B	21	Drywall	White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 95% Non-Fibrous
13-03-03413-022A	22	Joint Comp.	White Chalky; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03413
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03413-022B	22	Drywall	Cream/Brown Fibrous; White Chalky; Inhomogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-03-03413-023	23		White Rubber-Like; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-024	24		White Rubber-Like; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-025	25		White Rubber-Like; Homogeneous	NAD	100% Non-Fibrous
13-03-03413-026	26		White Chalky; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03413
Project/Test Address: 11131368

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 25-NIST REF
QC Blank: SRM 1866 Fiberglass
Reporting Limit: 1% Asbestos
Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020
Analyst: Laura Holder

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

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400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

26 AM
EBI 22.4564
Bldg S/F 205-60
11131308

PROJECT NAME: Hacienda Hotel South Tower DATE: 3-25-13

SAMPLED BY: Kurt / Gene 13024

13-03-03413
Due Date: 03/27/2013 (Wednesday)
ER M Inv

SAMPLE NUMBER	DESCRIPTION & LOCATION			HOMOGENIOUS APPLICATION
1	Acoustic ceiling tile	St	24	M-01
2	Acoustic ceiling tile	G		M-01
3	Acoustic ceiling tile	G		M-01
4	Acoustic ceiling Spray on	G		S-01
5	Drywall tape & joint compound Rm 118	G		S-02
6	Carpet mastic Hallway 2nd Floor	G		M-02
7	Carpet mastic Hallway 1st Floor	G		M-02

Analyze ALL Layers!

JStone 3.26.13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

Bldg S/A
205 x 60

PROJECT NAME: Hacienda Hotel South Tower DATE: 3-25-13

SAMPLED BY: Groove/Kent KRE PROJECT #: 1304

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
8	carpet mastic 3rd Floor	G		M-02
9	drywall tape + joint compound Rm 2209	G		S-02
10	Acoustic ceiling Rm 2204	G		S-01
11	vinyl tile white service elevator	G	2000 S/F	M-03
12	vinyl tile white service elevator	G	2000 S/F	M-03
13	vinyl tile white service elevator	G	2000 S/F	M-03
14	drywall tape + joint compound Rm 2318	G		S-02

JStorm
3-26-13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

Bldg S/T
205 x 60

PROJECT NAME: Hacienda Hotel South Tower DATE: 3-25-13

SAMPLED BY: Kurt / Greene KRE PROJECT #: 13024

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
15	Acoustic ceiling outside Bathroom Rm 2317	G		S-01
16	Acoustic ceiling Rm 2407	G		S-01
17	Drywall tape + joint compound Rm 2424	G		S-02
18	Drywall tape + joint compound Rm 2511	G		S-02
19	Acoustic ceiling Rm 2619	G		S-01
20	Acoustic ceiling Rm 2602	G		S-01
21	Drywall tape + joint compound Rm 2701	G		S-02

JStone
3-26-13

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PROJECT NAME: Hacienda Hotel South Tower DATE: 3-25-13

SAMPLED BY: Kurt / George KRE PROJECT #: 13044

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
22	Drywall tape + joint compound Rm 2602	G		S-01
23	window putty Hallway window 3rd Floor	G		M-04
24	window putty Hallway window 6th Floor	G		M-04
25	window putty Hallway window 8th Floor	G		M-04
26	Acoustic ceiling Rm	G		S-01

JStone
3-26-13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-03-03427

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 03/26/2013
Analyzed Date: 03/27/2013
Reported Date: 03/27/2013

Project/Test Address: 11131368; Hacienda Hotel West Tower

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-001	01		Gray Cementitious; Off-White/Brown Pliable to Brittle; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-002	02		Off-White Cementitious; Off-White to Beige Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03427-003	03		Gray Cementitious; Off-White/Brown Pliable to Brittle; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-004	04		Off-White Cementitious; Off-White/Pale Tan Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-005	05		Gray Cementitious; Off-White/Brown Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 1% Hair 98% Non-Fibrous
13-03-03427-006	06		Gray Cementitous; Off-White Pliable; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-007	07		Off-White Cementitious; Beige/Off-White Pliable; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-008A	08	Flooring	Off-White/Dark Teal/Light Gray Vinyl-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-008B	08	Mastic	Pale Yellow Adhesive; Homogeneous	NAD	4% Cellulose 2% Synthetic 94% Non-Fibrous
13-03-03427-009A	09	Flooring	Off-White/Dark Teal/Light Gray Vinyl-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-009B	09	Mastic	Pale Yellow Adhesive; Homogeneous	NAD	4% Cellulose 2% Synthetic 1% Hair 93% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-010A	10	Flooring	Off-White/Dark Teal/Light Gray Vinyl-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-010B	10	Mastic	Pale Yellow Adhesive; Homogeneous	NAD	3% Cellulose 1% Fibrous Glass 1% Synthetic 95% Non-Fibrous
13-03-03427-011A	11	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous
13-03-03427-011B	11	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03427-011C	11	Joint Comp.	White Brittle; Homogeneous	NAD	2% Cellulose 1% Fibrous Glass 97% Non-Fibrous
13-03-03427-012A	12	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03427-012B	12	Joint Comp.	White Brittle; Homogeneous	NAD	1% Cellulose 1% Fibrous Glass 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-013A	13	Textile	Off-White Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous
13-03-03427-013B	13	Sealant	Pale Beige Pliable; Homogeneous	NAD	8% Cellulose 92% Non-Fibrous
13-03-03427-014A	14	Textile	Off-White Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous
13-03-03427-014B	14	Sealant	Pale Beige Pliable; Homogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-03-03427-015A	15	Textile	Off-White Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous
13-03-03427-015B	15	Sealant	Pale Beige Pliable; Homogeneous	NAD	7% Cellulose 93% Non-Fibrous
13-03-03427-016	16		Pale Gray Cementitious; Gray/Maroon Pliable to Brittle; Inhomogeneous	NAD	100% Non-Fibrous
13-03-03427-017	17		Transluscent to Off-White Pliable; Homogeneous	NAD	2% Cellulose 2% Synthetic 96% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-018	18		Off-White Pliable; Homogeneous	NAD	2% Cellulose 2% Synthetic 96% Non-Fibrous
13-03-03427-019	19		Transluscent to Off-White Pliable; Homogeneous	NAD	2% Cellulose 2% Synthetic 96% Non-Fibrous
13-03-03427-020A	20	Base Coat	Gray Cementitious; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-03-03427-020B	20	Other *	Dark Gray Brittle; Off-White Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
* Insulating Surface Coating and Paint					
13-03-03427-021	21		Pale Gray Cementitous; Off-White/Tan Pliable to Brittle; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03427-022A	22	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03427-022B	22	Joint Comp.	White to Off-White Brittle; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03427-023A	25	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous

Client Number: 22-4564 Report Number: 13-03-03427
Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-023B	25	Joint Comp.	Off-White Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-03427-024	26		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	10% Chrysotile	2% Cellulose 88% Non-Fibrous
			Total Asbestos:	10%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					
13-03-03427-025	27		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	10% Chrysotile	2% Cellulose 88% Non-Fibrous
			Total Asbestos:	10%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					
13-03-03427-026A	28	Drywall	Off-White Brittle; Tan Fibrous; Inhomogeneous	NAD	25% Cellulose 3% Fibrous Glass 72% Non-Fibrous
13-03-03427-026B	28	Seam Tape	Pale Beige Fibrous; Homogeneous	NAD	98% Cellulose 2% Non-Fibrous
13-03-03427-026C	28	Joint Comp.	White to Off-White Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-03427-027A	29	Other *	White to Off-White Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
* Leveling/Joint Compound-Type Material; no mastic observed in sample.					
13-03-03427-027B	29	Other *	Beige Brittle; Beige/Pale Pink Pliable; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous
* Surface Sealant and Paint-Type Materials; no mastic observed in sample.					

Client Number: 22-4564 Report Number: 13-03-03427
Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-028A	30	Other *	White to Off-White Brittle; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
* Leveling/Joint Compound-Type Material; no mastic observed in sample.					
13-03-03427-028B	30	Other *	Beige Brittle; Beige/Pale Pink Pliable; Inhomogeneous	NAD	3% Cellulose 97% Non-Fibrous
* Surface Sealant and Paint-Type Materials; no mastic observed in sample.					
13-03-03427-029A	31	Other *	White to Off-White Brittle; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
* Leveling/Joint Compound-Type Material; no mastic observed in sample.					
13-03-03427-029B	31	Other *	Beige Brittle; Beige/Pale Pink Pliable; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous
* Surface Sealant and Paint-Type Materials; no mastic observed in sample.					
13-03-03427-030	32		White Pliable; Homogeneous	NAD	3% Talc 97% Non-Fibrous
13-03-03427-031	33		White Pliable; Homogeneous	NAD	1% Cellulose 3% Talc 96% Non-Fibrous
13-03-03427-032	34		White Pliable; Homogeneous	NAD	3% Talc 97% Non-Fibrous
13-03-03427-033	35		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	10% Chrysotile	2% Cellulose 88% Non-Fibrous
			Total Asbestos:	10%	

Chrysotile present in pale gray brittle texturing compound (main) layer.

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-034	36		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	10% Chrysotile	2% Cellulose 88% Non-Fibrous
			Total Asbestos:	10%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					
13-03-03427-035	38		Silver Pliable; Homogeneous	NAD	100% Non-Fibrous
13-03-03427-036	39		Silver Pliable; Homogeneous	NAD	1% Synthetic 99% Non-Fibrous
13-03-03427-037	40		Silver Pliable; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-03-03427-038	41		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	12% Chrysotile	2% Cellulose 86% Non-Fibrous
			Total Asbestos:	12%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					
13-03-03427-039	42		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	12% Chrysotile	2% Cellulose 86% Non-Fibrous
			Total Asbestos:	12%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					
13-03-03427-040	43		Pale Gray Brittle; Off-White/White Pliable; Inhomogeneous	10% Chrysotile	2% Cellulose 88% Non-Fibrous
			Total Asbestos:	10%	
Chrysotile present in pale gray brittle texturing compound (main) layer.					

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-041A	44	Drywall	Tan Fibrous; Beige/Pink/Yellow/Off-White Pliable to Brittle; Inhomogeneous	NAD	45% Cellulose 1% Fibrous Glass 1% Hair 53% Non-Fibrous
13-03-03427-041B	44	Joint Comp.	Pale Beige Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-03427-042A	45	Drywall	Off-White Brittle; Tan Fibrous; Beige/Yellow Pliable to Brittle; Inhomogeneous	NAD	10% Cellulose 10% Fibrous Glass 80% Non-Fibrous
13-03-03427-042B	45	Joint Comp.	Pale Beige Brittle; Homogeneous	2% Chrysotile	2% Cellulose 96% Non-Fibrous
			Total Asbestos:	2%	
13-03-03427-043A	46	Other *	Black/Dark Brown Fibrous; Black/Silver Brittle; Silver Metallic; Inhomogeneous	NAD	55% Cellulose 5% Fibrous Glass 40% Non-Fibrous
* Vapor Barrier-Type Material					
13-03-03427-043B	46	Textile	Pale Beige Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous
13-03-03427-043C	46	Other *	Off-White/Blue Pliable; Inhomogeneous	NAD	8% Cellulose 92% Non-Fibrous
* Painted Sealant					

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-044A	47	Insulation	Off-White Fibrous; Homogeneous	20% Chrysotile 45% Amosite Total Asbestos: 65%	5% Fibrous Glass 30% Non-Fibrous
13-03-03427-044B	47	Covering/ Jacket	Off-White Fibrous; Blue Pliable; Silver Pliable to Brittle; Inhomogeneous	NAD	70% Cellulose 30% Non-Fibrous
13-03-03427-045A	48	Other *	Black Brittle; Silver Metallic; Inhomogeneous	NAD	12% Cellulose 88% Non-Fibrous
* Vapor Barrier-Type Material					
13-03-03427-045B	48	Sealant	Beige Pliable to Brittle; Homogeneous	NAD	15% Cellulose 85% Non-Fibrous
13-03-03427-045C	48	Other *	Pale Beige Fibrous; Blue Pliable to Brittle; Inhomogeneous	NAD	80% Cellulose 20% Non-Fibrous
* Painted Textile					
13-03-03427-046	49		Off-White Fibrous; Red Pliable to Brittle; Inhomogeneous	NAD	75% Cellulose 25% Non-Fibrous
13-03-03427-047	50		Off-White Fibrous; Red Pliable to Brittle; Inhomogeneous	NAD	80% Cellulose 20% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-03-03427

Project/Test Address: 11131368; Hacienda Hotel West Tower

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-03-03427-048	51		Off-White Fibrous; Red Pliable to Brittle; Inhomogeneous	NAD	75% Cellulose 25% Non-Fibrous

QC Sample: 63-NY-33-3478

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Mark Case

Reviewed By Authorized Signatory: 

Howard Varner
General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

KR ENVIRONMENTAL SERVICES, INC
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SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

SLRM
EDF 224564

11131368

PROJECT NAME: Hacienda Hotel West Tower DATE: 3-22-13

SAMPLED BY: Kurt / Gregg KRE PROJECT #: 1304

13-03-03427

Due Date:
03/27/2013
(Wednesday)

ERM Inv 03428

SAMPLE NUMBER	DESCRIPTION & LOCATION		AREA IN FEET	HOMOGENIOUS APPLICATION
01	Exterior Stucco East side		8000	S-01
02	Exterior Stucco East side	6	8000	S-01
03	Exterior Stucco East side	6	8000	S-01
04	Exterior Stucco East side	6	8000	S-01
05	Exterior Stucco N.E. corner	6	8000	S-01
06	Exterior Stucco North side	6	8000	S-01
07	Exterior Stucco West side	6	8000	S-01

Analyze ALL layers! JStone 3/26/13

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel West Tower DATE: 3-25-13

SAMPLED BY: Kurt/George KRE PROJECT #: B014

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
08	Blue/White 12" x 12" Floor Tile and Mastic	6	110 SF	M-01
09	Blue/White 12 x 12 floor tile and Mastic	6	110 SF	M-01
10	Blue/White 12 x 12 Floor tile & Mastic	6	110 SF	M-01
11	Drywall Tape & Joint Compound Work Area/Basement	6	2200 SF	S-02
12	Drywall Tape & Joint compound Maintenance Mechanical Shop	6	2200	S-02
13	Boiler Wrap Boiler Room	6	150 S/F	M-02
14	Boiler Wrap Boiler Room	6	150	M-02

JStorey 3-26-13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel West Tower DATE: 3-22-13

SAMPLED BY: Kent / George KRE PROJECT #: 1304

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
15	Boiler Wrap Boiler Room	G	150	M-02
16	Plaster Wall Boiler Room	G		S-03
17	Carpet Mastic Elevator	G	40 SF	M-03
18	Carpet Mastic Elevator	G	40 SF	M-03
19	Carpet Mastic Elevator	G	40 SF	M-03
20	Boiler Room Ceiling Plaster	G	900	S-03
21	Plaster Wall TV Room	G	900	S-03

JStone
3-26-13

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel West Tower DATE: 3-22-13

SAMPLED BY: Kurt/George KRE PROJECT #: 1304

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
22	Drywall Tape & Joint Compound TV Room	G	2000 SF	S-02
23	Drywall Tape Joint Compound TV Room	G	2000 SF	S-02
24	Drywall Tape & Joint Compound TV Room	G	2000	S-02

J Stone
3-26-13

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

Rooms 25x15 S/F

PROJECT NAME: Hacienda Hotel west tower DATE: 3-25-13

SAMPLED BY: Kurt / George KRE PROJECT #: 13044

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
25	Drywall tape & joint compound Rm # 1967	G	10K plus	S-02
26	Acoustic popcorn Room # 1967	G	10K plus	S-01
27	Acoustic popcorn Rm # 1871	G	10K plus	S-04
28	Drywall tape & joint compound Rm 1871	G	10K plus	S-02
29	carpet mastic 8th Floor Hallway	G	10K plus	M-04
30	Carpet mastic 5th Floor Hallway	G	10K plus	M-04
31	carpet mastic 4th Floor Hallway	G	10K plus	M-04

J Stone 3-26-13

KR ENVIRONMENTAL SERVICES, INC
2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

West Tower

PROJECT NAME: Hacienda Hotel DATE: 3-25-13

SAMPLED BY: Kurt / Greg KRE PROJECT #: 1804

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
32	tile grout Rm 1789	G		M-06
33	tile grout Rm 1789	G		M-06
34	tile grout Rm 1789	G		M-06
35	Acoustic popcorn Rm 1786	G	Jok plus	S-04
36	Acoustic popcorn Rm 1783	G	Jok plus	S-04
37	drywall tape + joint compound Rm 1786	G	Jok plus	S-02
38	window putty west tower 6th Floor	G		M-07

3-26-13

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2727 S. CRODDY WAY UNIT "C"
SANTA ANA CA. 92704
OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel DATE: 3-25-13

SAMPLED BY: Kurt / Greore KRE PROJECT #: 13024

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
39	window putty west tower 7th Floor	G		M-07
40	window putty west tower 8th Floor	G		M-07
41	Acoustic popcorn Rm 1678	G	20K plus	S-04
42	Acoustic popcorn Rm 1578	G	20K plus	S-04
43	Acoustic popcorn Rm 1477	G	20K plus	S-04
44	drywall tape & joint compound Rm 1678	G	20K plus	S-02
45	drywall tape & joint compound Rm 1477	G	20K plus	S-02

3-26-13

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hacienda Hotel west Tower DATE: 3-25-13

SAMPLED BY: Kurt Greene KRE PROJECT #: 13024

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
46	Pipe wrap in Penthouse west Tower "Blue"	G	200 S/F	M-08
47	Pipe wrap in Penthouse west tower "Blue"	G	200 S/F	M-08
48	Pipe wrap in penthouse west tower "Blue"	G	200 S/F	M-08
49	Pipe wrap in Penthouse west tower "Red"	G	50 S/F	M-09
50	Pipe wrap in Penthouse west tower "Red"	G	50 S/F	M-09
51	Pipe wrap in Penthouse west tower "Red"	G	50 S/F	M-09

JStone
3-26-13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-04-00711

Client: Enviro Business Inc.
21 B Street
Burlington, MA 01803

Received Date: 04/05/2013
Analyzed Date: 04/05/2013
Reported Date: 04/05/2013

Project/Test Address: 11131368; El Segundo, CA

Client Number: 22-4564

Fax Number: 845-498-9075

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-04-00711-001	01		Yellow Adhesive; Black Foam-Like; Inhomogeneous	NAD	2% Cellulose 8% Synthetic 90% Non-Fibrous
13-04-00711-002	02		Yellow Adhesive; Fibrous; Homogeneous	NAD	2% Cellulose 8% Synthetic 90% Non-Fibrous
13-04-00711-003	03		Yellow Adhesive; Black Foam-Like; Inhomogeneous	NAD	2% Cellulose 3% Synthetic 95% Non-Fibrous
13-04-00711-004	04		White/Beige Textured; Inhomogeneous	NAD	100% Non-Fibrous
13-04-00711-005	05		White/Beige Textured; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-04-00711

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-04-00711-006	06		White/Beige Textured; Inhomogeneous	NAD	100% Non-Fibrous
13-04-00711-007A	07	Tile	White Granular; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-04-00711-007B	07	Mastic	Black Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-04-00711-008A	08	Tile	White Granular; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-04-00711-008B	08	Mastic	Black Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-04-00711-009A	09	Tile	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-04-00711-009B	09	Mastic	Black Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 22-4564 Report Number: 13-04-00711

Project/Test Address: 11131368; El Segundo, CA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 39-M1-1999-2

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Timothy Harris

Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

9 PLM

Asbestos Chain-of-Custody

13-04-00711

Due Date:
04/05/2013
(Friday)
ER M Inv

T

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: EBI Consulting Address: 6876 Susquehanna Trail South City/State/Zip: York, Pennsylvania 17403

Phone: 443-528-2318 Fax: E-mail: dkennedy@ebiconsulting.com Acct. Number: 22-4564 A

Project Name / Testing Address: 11131368 **City/State (Required):** El Segundo, CA

Collected by: Kurt Baumann Purchase Order Number: 11131368

Turn Around Times: ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

_____ **1 - Day** _____ **2 - Day** _____ **3 - Day** ____X **(but 24 hour if needed)**____ **Same Day (Must Call Ahead)** _____ **Weekend (Must Call Ahead)**

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	9 PLM Bulk		X												
2	Samples														
3	(See Attached)														
4															
5															
6															
7															
8															
9															
10															

Released by: Kurt Baumann Signature: Date/Time: 4/4/13

Received by: M Blessing Signature: MEB Date/Time: 4/5/13

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hamilton Hotel DATE: 4/3/13

SAMPLED BY: Kurt KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
01	~~Carpet~~ Mastic West tower 4th Floor	6		M-01
02	Carpet Mastic West tower Room 1272	6		M-01
03	Carpet Mastic West tower 9th Floor	6		M-01
04	Textured Ceiling Hallway West Tower 9th Floor	6	20,000	S-01
05	Textured Ceiling Hallway West tower 7th Floor	6	2000	S-01
06	Textured Ceiling Hallway West tower 4th Floor	6	2000	S-01
07	Service Elevator Lobby South tower 12ER Floor tile + Mastic	6	2000	M-02

KR ENVIRONMENTAL SERVICES, INC

2727 S. CRODDY WAY UNIT "C"

SANTA ANA CA. 92704

OFFICE: 714-754-7800 FAX: 714-754-7878

PROJECT NAME: Hyatt Hotel DATE: 4/3/13

SAMPLED BY: Kurt KRE PROJECT #: 13023

SAMPLE NUMBER	DESCRIPTION & LOCATION	CONDITION G = GOOD D = DAMAGED S = SEVERELY DAMAGED	AREA IN FEET	HOMOGENIOUS APPLICATION
08	Service Elevator Lobby South tower 12x12 Ft + Mastic	6	200	M-02
09	Service Elevator Lobby South tower 12x12 Ft + Mastic			

ATTACHMENT D
CERTIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Unit
2424 Arden Way, Suite 485
Sacramento, CA 95825-2417
(916) 574-2993 Office (916) 483-0572 Fax
http://www.dir.ca.gov/dirdatabases.html actu@dir.ca.gov

Edmund G. Brown, Jr. *Governor*

808144418C 318 322

December 12, 2012

Kurt S Baumann
16742 Daisy Ave
Fountain Valley CA 92708

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email; of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File



State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician



George A Medina

Name

Certification No. **11-4817**

Expires on **05/16/13**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.