Appendix O Utility Information

O-1 Utility Infrastructure Technical Report



HARVARD-WESTLAKE RIVER PARK PROJECT

(4141 WHITSETT AVENUE, STUDIO CITY CA 91604)

UTILITY INFRASTRUCTURE TECHNICAL REPORT: WATER, WASTEWATER AND ENERGY FEBRUARY 2022

PREPARED BY:

KPFF Consulting Engineers 700 South Flower St., Suite 2100 Los Angeles, CA 90017 213-418-0201

Table of Contents

	Appe	ndix	. 11
1.	IN	TRODUCTION	. 1
	1.1.	PROJECT DESCRIPTION	. 1
	1.2.	SCOPE OF WORK	. 2
3.	EN	VIRONMENTAL SETTING	. 2
	3.1.	WATER	. 2
	3.2.	WASTEWATER	. 4
	3.3.	ENERGY	. 6
4.	SIC	GNIFICANCE THRESHOLDS	. 7
	4.1.	WATER	. 7
	4.2.	WASTEWATER	. 8
	4.3.	ENERGY	. 8
5.	MF	ETHODOLOGY	10
	5.1.	WATER	10
	5.2.	WASTEWATER	11
	5.3.	ENERGY	12
6.	PR	OJECT IMPACTS	12
	6.1.1.	WATER	12
	6.1.2.	WASTEWATER	13
	6.2.	OPERATION	14
	6.2.2.	WASTEWATER	18
	6.2.2.	1 SEWER GENERATION	18
	6.2.3	ENERGY	21
	6.3.	CUMULATIVE IMPACTS	22
	6.3	.1 Water Infrastructure	22
	6.3	.2 Wastewater	22
	6.3	.3 Energy	25
7	LF	VEL OF SIGNIFICANCE	26

Appendix

- Exhibit 1- Existing Water and Wastewater Infrastructure Exhibit
- Exhibit 2- LADWP "Information of Fire Flow Availability Request" Results
- Exhibit 3- LADWP Water "Service Advisory Request" Results
- Exhibit 4- City of Los Angeles Wastewater Will Serve Letter
- Exhibit 5- Power Will Serve Letter
- Exhibit 6- Natural Gas Will Serve Letter
- Exhibit 7 ESA Energy Memo
- Exhibit 8- Preliminary Annual Energy Demand Analysis ESA Exhibit A CalEEMod
- Exhibit 9 LASAN Sewage Generation Factor Table
- Exhibit 10 Weddington Golf Course Water Demand
- Exhibit 11 Proposed Irrigation Study by Studio-MLA (Landscape Architect)

1. INTRODUCTION

1.1. PROJECT DESCRIPTION

The Project Applicant, Harvard-Westlake School (School) is proposing to repurpose a site currently occupied by a nine-hole, 27-par golf course and tennis facility, for use as an athletic and recreational facility for its students, employees and the general public (Project). The area proposed for the Project consists of an approximately 16.1-acre parcel, owned by the School (Property), and an approximately 1.1-acre parcel the School leases from Los Angeles County (Leased Property), which collectively comprise the approximately 17.2-acre site (Project Site). The 16.1-acre Property consists of one parcel in the City of Los Angeles (City) generally bounded by Bellaire Avenue to the west, Valley Spring Lane to the north, the Los Angeles River to the south, and Whitsett Avenue to the east. Los Angeles Fire Department Station 78 is located immediately south of the Project Site along Whitsett Ave. The approximately 1.1-acre Leased Property is located between the 16.1-acre Property and the Los Angeles River.

The Project also involves off-site improvements to Valleyheart Drive, located primarily to the south of Fire Station 78, and to portions of the Zev Yaroslavsky Los Angeles River Greenway (Zev Greenway), an improved public trail along the northern edge of the Los Angeles River. The Project would implement an extensive tree and landscaping program. The Project includes a stormwater capture and reuse system for water conservation and treatment purposes. The Project would also provide approximately 6 acres of publicly accessible open space and landscaped trails connecting to the adjacent Zev Greenway and on-site landscaped areas, water features, and recreational amenities.

The Project includes two athletic fields, with Field A located in proximity to Whitsett Avenue in the southeastern portion of the Project Site, and Field B, located in proximity to Valley Spring Lane and Bellaire Avenue, in the western portion of the Project Site. Field houses for maintenance and storage are proposed at each field.

The Project would include an 80,249-square-foot multi-purpose gymnasium, located in the southern portion of the Project Site, and a 52-meter swimming pool with ancillary locker, restroom, and meeting room space. The pool would be located in the north-central portion of the Project Site to the west of eight tennis courts with seating. The Project would include a below-grade parking structure located in the eastern portion of the Project Site, with approximately 503 automobile parking spaces. Access to the parking structure would be via a two-way driveway on Whitsett Avenue. A second driveway to access the parking structure would be via a drop-off and roundabout from Valleyheart Drive at the southeastern corner of the Project Site. This vehicle entrance area would also accommodate 29 surface parking spaces. The Project would also provide three security kiosks: a 180-square-foot ground-level security kiosk to the south of the tennis courts off of the north Whitsett Avenue pedestrian entrance, a 97-square-foot underground kiosk in the parking structure, and a 70-square-foot kiosk located in proximity to the roundabout and the at-grade parking.

The original, on-site Weddington Golf & Tennis clubhouse, including its café, is located on the northeastern portion of the Project Site and would remain as part of the Project and would continue to be open to the public. An existing putting green to the northeast of the clubhouse, six existing golf ball-shaped light standards and poles, and the low brick retaining wall along the northwestern edge of the Property would also remain.

Construction of the Project would be completed over an approximately 30-month period. Activities would be phased, beginning as early as 2022. Project construction would require grading and excavation activities down to a maximum depth of 21 feet for construction of the one-level subterranean parking structure, gymnasium basement, and proposed one-million-gallon stormwater capture and reuse system. Rough grading cut volumes would be approximately 251,836 cubic yards (unadjusted), and the fill volume would be approximately 1,836 cubic yards (unadjusted), for a net cut/fill volume of approximately 250,000 cubic yards (unadjusted). Because cut soils would exceed fill soils, export and disposal off-site would be required.

1.2. SCOPE OF WORK

As a part of the EIR for the Project, the purpose of this report is to analyze the potential impact of the Project to the existing water, wastewater, energy, and gas infrastructure systems. The analysis of the Project's energy and natural gas impacts was conducted by ESA and can be found in Exhibits 7 and 8.

3. ENVIRONMENTAL SETTING

Existing Project Site facilities include a 2,700-square-foot clubhouse, which incorporates a 10-seat café which is proposed to remain. A 799-square-foot tennis shack and 16 tennis courts, a nine-hole golf course comprising approximately 426,000 square feet, a 25-stall driving range with a 2,300-square-foot golf canopy, and a putting green are also located on the Project Site. The existing on-site facilities also include storage buildings and a surface parking lot.

Domestic water and sewer generation, were calculated for the existing clubhouse, storage structures and parking lot on the Project Site as shown in Table 1, Estimated Existing Domestic Water Consumption. This analysis was developed using LABOE loading tables, which do not consider irrigation demand. Irrigation demand for the Project was provided separately by Studio-MLA (MLA), see Exhibit 11.

3.1. WATER

3.1.1. LOCAL

LADWP maintains the water infrastructure to the Project Site. The following information is based on water service maps provided by LADWP:

[&]quot;Unadjusted" cut and fill is a programmed estimate that does not account for minor shrinkage from compaction, swelling, or other factors that may require final manual adjustments to achieve finished gradients/ heights.

- Whitsett Avenue: There is a westerly 8-inch water line in Whitsett Avenue between Valley Spring Lane and Valleyheart Drive. There is an existing 2-inch water meter that serves the Project Site.
- Valley Spring Lane: There is a southerly 6-inch water line in Valley Spring Lane between Bellaire Avenue and Whitsett Avenue.
- **Bellaire Avenue:** There is a westerly 6-inch water line in Bellaire Avenue between Valley Spring Lane and Valleyheart Drive.

An analysis of the current existing domestic water consumption for Weddington Golf & Tennis is presented in Table 1 below. The table was developed using the City's Bureau of Sanitation (LASAN) Sewage Generation loading table (Exhibit 8).

Table 1 – Estimated Existing Domestic Water Consumption					
Building Use	Sewage Generation (GPD/1,000 Gr SF) ⁴	Units	Quantity	Total Generation (GPM)	
Field Buildings ¹	30	SF	3,900	0.09	
Parking Lot ²	20	SF	60,500	0.93	
Clubhouse/Cafe ³ (to remain)	120	SF	2,700	0.25	
'	1.27				

¹ Field Buildings – Storage: Building/Warehouse 30/1,000 Gr SF

EXISTING FIRE INFRASTRUCTURE

Based on information provided on the City's NavigateLA website, there are several existing fire hydrants in the immediate vicinity of the Project Site shown in Exhibit 1. The locations of the fire hydrants are described below:

- Whitsett Avenue: There are four existing fire hydrants located along Whitsett Avenue within the Project Site vicinity: one at the northwest corner at the intersection of Valley Spring Lane, one at the northeast corner at the intersection of Valley Spring Lane, one 300-feet south of Valley Spring Lane, and one 345-feet north of Valleyheart Drive.
- Valley Spring Lane: There are two additional fire hydrants located along Valley Spring Lane within the Project Site vicinity: one at the northwest corner at the intersection of Teesdale Avenue and one at the northwest at the intersection of Babcock Avenue.

² Parking Lot (surface parking) – Auto Parking (a) 20/1,000 Gr SF

³ Clubhouse/Cafe to remain (Visitor Center) – Office Building 120/1,000 Gr SF

⁴ LASAN Sewage Generation Factor Exhibit 8.

Furthermore, Los Angeles Fire Department Station 78 is located immediately south of the Project Site along Whitsett Ave.

3.2. WASTEWATER

3.3.1. REGIONAL

LASAN operates and maintains the wastewater treatment, reclamation and collection facilities serving most of the City of Los Angeles incorporated areas as well as several other cities and unincorporated areas in the Los Angeles basin and San Fernando Valley. The collection infrastructure consists of over 6,700 miles of local, trunk, mainline and major interceptor sewers, five major outfall sewers, and 46 pumping plants. The Project Site is located within the Hyperion System service area. The Hyperion System is serviced by the Hyperion Sanitary Sewer System, which consists of the Hyperion Water Reclamation Plant (HWRP), the Donald C. Tillman Water Reclamation Plant (TWRP), and the Los Angeles—Glendale Water Reclamation Plant (LAGWRP).

The existing design capacity of the Hyperion Sanitary Sewer System is approximately 550 million gallons per day (mgd) (consisting of 450 mgd at the HWRP, 80 mgd at the TWRP, and 20 mgd at the LAGWRP. Based on the One Water LA 2040 Plan—Wastewater Facilities Plan, the average wastewater flow rate in the Hyperion Sanitary Sewer System was 314 mgd in 2016 (consisting of 250 mgd at the HWRP, 47 mgd at the TWRP, and 17 mgd at the LAGWRP. The One Water LA 2040 Plan—Wastewater Facilities Plan, projects that annual average wastewater flows in the Hyperion Sanitary Sewer System would increase to 323 mgd in 2020, 348 mgd in 2030, and 358 in 2040. As such, current and projected flows are below the design capacity of approximately 550 mgd for the Hyperion Sanitary Sewer System.

Wastewater generated from the Project Site is conveyed via the local collector sanitary sewer system directly to the HWRP for treatment. The HWRP is the City's primary water reclamation plant and one of the oldest and largest wastewater treatment facilities in the world. The HWRP provides preliminary, primary, and secondary treatment processes, and also treats wastewater flows bypassed from the TWRP and LADWRP. Typically, the TWRP and LAGWRP treat wastewater up to or near their capacities on most days.

On average, 275 million gallons of wastewater enters the HWRP on a typical dry weather day. Because the amount of wastewater entering the HWRP can double on rainy days, the plant was designed to accommodate both dry and wet weather days with a maximum daily dry weather flow of 450 mgd and peak wet weather flow of 800 mgd.² As such, the HWRP's current remaining treatment capacity for dry weather flows is approximately 175 mgd on an average day.

LASAN, One Water LA 2040 Plan—Volume 2: Wastewater Facilities Plan, April 2018.

LA Sanitation & Environment (LASAN), Hyperion Water Reclamation Plant, https://www.lacitysan.org/san/faces/wcnav_externalId/s-lsh-wwd-cw-p-hwrp?_adf.ctrlstate=1186mdvh8u_393&_afrLoop=10107387348315793#!, accessed February 2020.

3.2.2. LOCAL

The local sanitary sewer system is maintained by LASAN.

The following sewer mains located in the vicinity serve the Project Site. (see Exhibit 1):

• **Bellaire Avenue:** There is an 8-inch VCP sewer line between Valleyheart Drive and Valley Spring Lane that flows northward¹. The terminal manhole is located 230-feet north of Valleyheart Drive (MH ID: 44207117) and the downstream manhole is located at the intersection of Valley Spring Lane (MH ID: 44207108)

Table 2 – Approximate Flow Level & Design Capacities – WWSI Exhibit 4						
Pipe Location	Pipe Location Pipe Size (in) Current Gage Reading d/D (%) 50% Design Cap					
Bellaire Avenue	8	*	229,000 GPD			
Woodbridge St	48	46	17.17GD			

^{*} No gauging available

• Whitsett Avenue: There is an 8-inch vitrified clay pipe (VCP) sewer line between Valley Spring Lane and Valleyheart Drive that flows southward. There are five existing manholes located along this section of the main line: the intersection of Valleyheart Drive (MH ID: 44208124), 275-feet south of Valley Spring Lane (MH ID: 44208146), 550-feet south of Valley Spring Lane (MH ID: 44208159), 235-feet north of Valleyheart Drive (MH ID: 44208182), and the intersection of Valleyheart Drive (MH ID: 44208189).

Table 3 – Approximate Flow Level & Design Capacities – WWSI Exhibit 4						
Pipe Location	Pipe Size (in)	Current Gage Reading d/D (%)	50% Design Capacity			
Whitsett Ave.	8	*	229,000 GPD			
Valleyheart Dr.	15	*	348,000 GPD			
Woodbridge St	48	46	17.17 MGD			

^{*} No gauging available

Harvard-Westlake River Park Project Environmental Impact Report February 2022

The 8-inch VCP sewer main in Bellaire Avenue located west of the Project Site between Valleyheart Drive and Valley Spring Lane is not included in the capacity discussion due to the large distance between the proposed buildings and the main.

An analysis of the estimated existing wastewater generation of Weddington Golf & Tennis is presented in Table 4 below. The table was developed using the LASAN Sewage Generation loading table (Exhibit 8).

Table 4 – Estimated Existing Wastewater Generation					
Building Use	Sewage Generation (GPD/1,000 Gr SF) ⁴	Units	Quantity	Total Generation (GPD)	
Field Buildings ¹	30	SF	3,900	117	
Parking Lot ²	20	SF	60,500	1,210	
Clubhouse/Cafe ³	120	SF	2,700	324	
(to remain)					
	1,651				

¹ Field Buildings – Storage: Building/Warehouse 30/1,000 Gr SF

3.3. ENERGY

3.3.1. ELECTRICITY

LADWP is responsible for providing power supply to the City while complying with County, State, and Federal regulations.

3.3.1.1. REGIONAL

LADWP's power system is the nation's largest municipal electric utility and serves a 465-square-mile area in Los Angeles and much of the Owens Valley. The system supplies more than 26 million megawatt-hours (MWh) of electricity a year for the City of Los Angeles' 1.4 million residential and business customers as well as over 5,000 customers in the Owens Valley. LADWP has over 7,460 megawatts (MW) of generation capacity from a diverse mix of energy sources including renewable energy, natural gas, nuclear, large hydro, coal and other sources. The distribution network includes 6,800 miles of overhead distribution lines and 3,597 miles of underground distribution cables.¹

-

² Parking Lot (surface parking) – Auto Parking (a) 20/1,000 Gr SF

³ Clubhouse to remain (Visitor Center) – Office Building 120/1,000 Gr SF

⁴ LASAN Sewage Generation Factor Exhibit 8.

¹ LADWP, 2015 Power Integrated Resource Plan, December 2015.

3.3.2. NATURAL GAS

The Southern California Gas Company (SoCalGas) is responsible for providing natural gas supply to the City and is regulated by the California Public Utilities Commission and other state and federal agencies.

3.3.2.1. REGIONAL

SoCalGas is the principal distributor of natural gas in Southern California, providing retail and wholesale customers with transportation, exchange and storage services and also procurement services to most retail core customers. SoCalGas is a gas-only utility and, in addition to serving the residential, commercial, and industrial markets, provides gas for enhanced oil recovery (EOR) and electric generation (EG) customers in Southern California. SoCalGas's natural gas system is the nation's largest natural gas distribution utility and serves a 20,000 square-mile area in Central and Southern California. The system supplies natural gas to 21.8 million customers through 5.9 million meters in more than 500 communities.¹

4. SIGNIFICANCE THRESHOLDS

4.1. WATER

Appendix G of the State of California's California Environmental Quality Act (CEQA) Guidelines (CEQA Guidelines) provides a set of sample questions that address impacts with regard to utilities and service systems, with the following question applicable to water infrastructure:

Would the project:

• Require or result in the relocation or construction of new water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunication facilities or expansion of existing facilities, the construction or relocation of which would cause significant environmental effects?

In the context of the above questions from the Appendix G of the CEQA Guidelines, the City of Los Angeles CEQA Thresholds Guide (*L.A. CEQA Thresholds Guide*) states that the determination of significance with regard to impacts on water shall be made on a case-by-case basis, considering the following factors:

- The total estimated water demand for the project;
- Whether sufficient capacity exists in the water infrastructure that would serve the project, taking into account the anticipated conditions at project buildout;

_

¹ SoCalGas, Company Profile, https://www.socalgas.com/about-us/company-profile.

• The degree to which scheduled water infrastructure improvements or project design features would reduce or offset service impacts.

Based on these factors, the Project would have a significant impact if the water distribution capacity would be inadequate to serve the proposed use after appropriate infrastructure improvements have been installed.

4.2. WASTEWATER

Appendix G of the CEQA Guidelines provides a set of sample questions that address impacts with regard to wastewater. These questions are as follows:

Would the project:

- Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which would cause significant environmental effects?
- Result in a determination by the wastewater treatment provider, which serves or may serve the project, that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

In the context of the above questions from the CEQA Guidelines, the *L.A. CEQA Thresholds Guide* states that a project would normally have a significant wastewater impact if:

- The project would cause a measurable increase in wastewater flows at a point where, and a time when, a sewer's capacity is already constrained or that would cause a sewer's capacity to become constrained; or
- The project's additional wastewater flows would substantially or incrementally exceed the future scheduled capacity of any one treatment plant by generating flows greater than those anticipated in the Wastewater Facilities Plan or General Plan and its elements.

These thresholds are applicable to the Project and as such are used to determine if the Project would have significant wastewater impacts.

4.3. ENERGY

Appendix F of the CEQA Guidelines states that the potentially significant energy implications of a project should be considered in an EIR. Environmental impacts, as noted in Appendix F, may include:

• The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project's life cycle including construction,

operation, maintenance and/or removal. if appropriate, the energy intensiveness of materials may be discussed;

- The effects of the project on local and regional energy supplies and on requirements for additional capacity;
- The effects of the project on peak and base period demands for electricity and other forms of energy;
- The degree to which the project complies with existing energy standards;
- The effects of the project on energy resources;
- The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

Appendix G of the CEQA Guidelines has the following questions:

- Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction.
- Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In the context of the above thresholds, the *L.A. CEQA Thresholds Guide* states that a determination of significance shall be made on a case-by case basis, considering the following factors:

- The extent to which the project would require new (off-site) energy supply facilities and distribution infrastructure; or capacity enhancing alterations to existing facilities;
- Whether and when the needed infrastructure was anticipated by adopted plans;
 and
- The degree to which the project design and/or operations incorporate energy conservation measures, particularly those that go beyond City requirements.

Based on these factors, the Project would have a significant impact on energy resources if the Project would result in an increase in demand for electricity or natural gas that exceeds available supply or distribution infrastructure capabilities, or the design of the Project fails to incorporate energy conservation measures that go beyond existing requirements.

5. METHODOLOGY

5.1. WATER

The methodology for determining the significance of a project as it relates to a project's impact on water distribution infrastructure is based on the *L.A. CEQA Thresholds Guide*. This methodology involves a review of the project's environmental setting, project impacts, cumulative impacts, and mitigation measures (if required). The following has been considered as part of the determination for this Project:

Environmental Setting

- Description of major water infrastructure serving the Project Site, including the type of facilities, location and sizes, and any planned improvements.
- Description of the water conditions for the Project area and known improvement plans.

Project Impacts

- Evaluate the Project's water demand, taking into account design or operational features that would reduce or offset water demand.
- Determine what improvements would be needed, if any, to adequately serve the Project.
- Describe the degree to which presently scheduled off-site improvements offset impacts.

This report analyzes the potential impacts of the Project on the existing public water infrastructure by comparing the estimated Project demand with the calculated available capacity of the existing facilities.

The existing and proposed water demand is based upon available site and Project information and utilizes 110 percent of the BOS sewerage generation factors. For this analysis 110 percent is used because not 100 percent of the water used gets into the sewer system.

LADWP performed a hydraulic analysis of their water system to determine if adequate fire flow is available to the fire hydrants surrounding the Project Site. LADWP's approach consists of analyzing their water system model near the Project Site. Based on the results, LADWP determines whether they can meet the project fire hydrant flow needs based on existing infrastructure. See Exhibit 2 for the results of the Information of Fire Flow Availability Request (IFFAR).

In addition, LADWP performed a flow test to determine if available water conveyance exists for future development. LADWP's approach consists of data ranging from available

static pressure (meaning how much pressure is available at the source before applying the project's demand), to the available pressure at the maximum demand needed for the project. Based on the results, LADWP determines whether they can meet the project needs based on existing infrastructure. See Exhibit 3 for the results of the Service Advisory Request (SAR).

5.2. WASTEWATER

The methodology for determining the significance of a project as it relates to a project's impact on wastewater collection and treatment infrastructure is based on the *L.A. CEQA Thresholds Guide*. This methodology involves a review of the project's environmental setting, project impacts, cumulative impacts, and mitigation measures (if required). The following has been considered as part of the determination for this Project:

Environmental Setting

- Location of the Project and appropriate points of connection to the wastewater collection system on the pertinent Wye Map;
- Description of the existing wastewater system which would serve the Project, including its capacity and current flows.
- Summary of adopted wastewater-related plans and policies that are relevant to the Project area.

Project Impacts

- Evaluate the Project wastewater needs, taking into account design or operational features that would reduce or offset service impacts including a full flush of the proposed Project's 52-meter pool;
- Compare the Project's wastewater needs to the appropriate sewer's capacity and/or the wastewater flows anticipated in the Wastewater Facilities Plan or General Plan.

This report analyzes the potential impacts of the Project on the existing public sewer infrastructure by comparing the estimated Project wastewater generation with the calculated available capacity of the existing facilities.

Pursuant to LAMC Section 64.15 BOS Wastewater Engineering Division made a preliminary analysis of the local and regional sewer conditions to determine if available wastewater conveyance capacity exists for future development of the Project Site. BOS's approach consisted of the study of a worst-case scenario, considering the possible need for a full flush of the Project's 52-meter pool, envisioning peak demands from the relevant facilities occurring simultaneously on the wastewater system. A combination of flow gauging data and computed results from the City's hydrodynamic model were used to project current and future impacts due to additional sewer discharge. Refer to Exhibit 4

which contains the Wastewater Services Information Request Letter to LASAN and the response letter.

5.3. Energy

The methodology for determining the significance of a project as it relates to a project's impact on energy infrastructure is based on the *L.A. CEQA Thresholds Guide*. This methodology involves a review of the project's environmental setting, project impacts, cumulative impacts, and mitigation measures as required. The following has been considered as part of the determination for this Project:

Environmental Setting

- Description of the electricity and natural gas supply and distribution infrastructure serving the Project Site. Include plans for new transmission facilities or expansion of existing facilities; and
- Summary of adopted energy conservation plans and policies relevant to the Project.

Project Impacts

- Evaluation of the new energy supply and distribution systems which the Project would require.
- Describe the energy conservation features that would be incorporated into Project design and/or operation that go beyond City requirements, or that would reduce the energy demand typically expected for the Project.
- Consult with the LADWP or SoCalGas, if necessary to gauge the anticipated supply and demand conditions at Project buildout.

This report analyzes the potential impacts of the Project on existing energy infrastructure by comparing the estimated Project energy demand with the available capacity. Will-serve letters from LADWP and SoCalGas (Exhibits 5 and 6) demonstrate the availability of sufficient energy resources to supply the Project's demand.

In addition, potential energy impacts were analyzed by evaluating the energy demand and energy conserving features of the Project to determine whether the Project would involve the wasteful, inefficient, and unnecessary use of energy resources.

6. PROJECT IMPACTS

6.1 Construction

6.1.1. WATER

Construction would result in an intermittent demand for water during demolition, excavation, grading, and construction activities on-site, including, but not limited to, use

in dust control, cleaning of equipment, excavation/export, removal and re-compaction, and other related activities. Based on a review of construction projects of similar size and duration, a conservative estimate of construction water use ranges from 1,000 to 2,000 gpd for the Project. Based on measured data from the existing golf course's water bills (Exhibit 10), existing domestic water use from on-site buildings and parking is 1,829 gpd (without irrigation) and water for irrigation is approximately 31,050 gpd, for a total of32,879 gpd. The Project's estimated construction water use of 1,000 to 2,000 gpd would be largely similar to the existing domestic water use from on-site buildings and parkin, which as discussed below, would be adequately supported by the existing water infrastructure. Further, during Project construction and with approval from LADWP and the City, temporary water supply may be obtained from existing metered water connections or fire hydrants. Accordingly, the existing water infrastructure has capacity to meet the limited and temporary water demand associated with construction of the Project.

The Project would require construction of new, on-site water distribution lines to serve the new buildings. Construction impacts associated with the installation of water distribution lines would primarily involve trenching in order to place the water distribution lines below surface and would be limited to on-site water distribution, and minor off-site work associated with connections to one of the public mains. Prior to ground disturbance, Project contractors would coordinate with LADWP to identify the locations and depth of all lines. Further, LADWP would be notified in advance of proposed ground disturbance activities to avoid water lines and disruption of water service.

6.1.2. WASTEWATER

With respect to wastewater generation during construction, temporary facilities, such as portable toilet and hand wash areas, would be provided by the construction contractor. Any sewage generated from these facilities would be collected and hauled off-site and would not be discharged into the public sewer system. Therefore, construction activities for the Project would not result in wastewater generation as construction workers would typically utilize portable restrooms and hand wash areas, which would not contribute to wastewater flows to the City's wastewater system. Thus, wastewater generation from Project construction activities is not anticipated to cause a measurable increase in wastewater flows and would not result in the need for new or expanded wastewater treatment facilities. Accordingly, there would be adequate treatment capacity in the Hyperion Sanitary Sewer System and HWRP during Project construction to serve the Project's projected demand in addition to existing commitments.

In addition, construction of the Project would include all necessary on- and off-site sewer pipe improvements and connections to adequately connect to the City's existing sewer system. Although not anticipated, if existing sewer lines are found to be substandard or in deteriorated condition, the Project Applicant would be required to make necessary improvements to achieve adequate service under City's Building and Safety Code and the Los Angeles Department of Public Works (LADPW) requirements. Construction relative to the wastewater system for the Project would occur at the Project Site and immediate vicinity. Such construction activities, if required, would be minimal and confined to trenching to place the connections or upgrade lines below the ground's surface and would

be temporary in nature. The design of these connections would be developed by a registered engineer and approved by the City's Bureau of Engineering (BOE). All necessary improvements would be verified through the permit approval process of obtaining a sewer connection permit from the City. Further, all construction activities that would happen in coordination with the appropriate agencies, including LASAN and BOE. These agencies would provide input on the Project and would coordinate with the Project Applicant before, during, and after construction activities. Finally, the Project would implement a Construction Management Plan to reduce temporary pedestrian and traffic impacts during construction, including maintaining lanes of travel and ensuring safe pedestrian access and adequate emergency vehicle access wherever construction of wastewater lines would impede such access.

Based on the above, the Project would not require or result in the relocation or construction of new or expanded wastewater treatment facilities, the construction or relocation of which could cause significant environmental effects, and impacts would be less than significant.

6.1.3. Energy

Electrical power would be consumed to construct the new buildings and facilities of the Project. Typical uses include but not limited too temporary power for lighting, equipment, and construction trailers. The demand would be supplied from existing electrical services within the Project Site and would not affect other services. Overall, demolition and construction activities would require minimal electricity consumption and would not be expected to have any adverse impact on available electricity supplies and infrastructure. Construction equipment and trailers typically do not use natural gas; therefore, no natural gas usage is expected to occur during construction.

Construction impacts associated with the Project's electrical and gas infrastructure upgrades would primarily be confined to trenching. Infrastructure improvements will comply with all applicable requirements and regulations, which are expected to and would ensure that there is no impact to the systems or adjacent properties. To reduce any temporary pedestrian access and traffic impacts during any necessary off-site energy infrastructure improvements, a construction management plan would be implemented to ensure safe pedestrian and vehicular travel.

6.2. OPERATION

6.2.1. WATER

6.2.1.1 Infrastructure Capacity

When analyzing the Project for infrastructure capacity, the projected demands for both fire suppression and domestic water are considered. Although domestic water demand is the Project's main contributor to water consumption, fire flow demands have a much greater instantaneous impact on infrastructure, and therefore are the primary means for analyzing infrastructure capacity. Conservative analysis for both fire suppression and domestic water

flows has been approved by LADWP for the Project. See Exhibit 2 and 3 for the IFFAR and SAR, respectively.

6.2.1.2 FIRE WATER DEMAND

The Project must comply with fire flow requirements set forth in Section 57.507.3 of the Los Angeles Municipal Code (LAMC), and as determined by the Los Angeles Fire Department (LAFD). The Project Site is zoned as A1-1XL-RIO, classified as Open Space or Agricultural land use and falls within the low-density residential land development category set forth by LAMC Section 57.507.3. Based on the fire flow standards, the required fire flow for the Project is 2,000 gallons per minute (gpm) from three adjacent fire hydrants running simultaneously. An IFFAR was submitted to LADWP regarding available fire hydrant flow to demonstrate compliance. The completed IFFAR, attached as Exhibit 2, shows three nearby hydrants in the vicinity of the Project Site flowing simultaneously for a combined 2,000 gpm. As shown by the IFFAR, the Project Site has adequate fire flow available to demonstrate compliance with Section 57.507.3 of the LAMC.

Furthermore, the Section 57.513 of the LAMC, Supplemental Fire Protection, states that:

Where the Chief determines that any or all of the supplemental fire protection equipment or systems described in this section may be substituted in lieu of the requirements of this chapter with respect to any facility, structure, group of structures or premises, the person owning or having control thereof shall either conform to the requirements of this chapter or shall install such supplemental equipment or systems. Where the Chief determines that any or all of such equipment or systems is necessary in addition to the requirements of this chapter as to any facility, structure, group of structures or premises, the owner thereof shall install such required equipment or systems.

The Project would incorporate a fire sprinkler suppression system to reduce the public hydrant demands, which would be subject to LAFD review and approval during the design and permitting of the Project. Based on Section 94.2020.0 of the LAMC that adopts by reference the National Fire Protection Association (NFPA) 14-2013 including Section 7.10.1.1.5, the maximum allowable fire sprinkler demand for a fully or partially sprinklered building would be 1,250 gpm. As noted, an SAR was submitted to LADWP in order to determine if the existing public water infrastructure could meet the demands of the Project. The approved SAR can be found in Exhibit 3 and the results are summarized below.

• The SAR for the domestic and fire water service off Whitsett Avenue shows that a static pressure of 116 pounds per square inch (psi) and a flow of up to 2,500 gpm can be delivered. Per the results of the SAR the maximum pressure of the 8-inch water line in Whitsett Ave is 198 psi.

The SAR shows that the fire and domestic water demands of the Project can be accommodated and the 20 psi requirement for the surrounding public hydrants is exceeded.

6.2.1.3 DOMESTIC WATER DEMAND

To compare the existing use of the golf course, driving range, and tennis courts to the potential use of the Project, the actual data from the existing Project Site uses and the existing Harvard-Westlake Upper School campus, located on Coldwater Canyon Avenue less than one mile from the Project Site, was studied.

The Harvard-Westlake Upper School campus, constituting approximately 19 acres, is typically occupied by more than 1,000 employees, students, and school-related visitors (combined), from 8 am to 7 pm during the weekdays. Based off 2018 and 2019 utility data, the Upper School campus uses an average of 540,000 gallons of water per month, a figure that includes both irrigation and domestic water demand.

In contrast, the School anticipates that the Project Site will primarily be occupied for school uses weekdays from 3 pm to 7 pm. Taking a conservative approach to estimating the Project's total water demand by prorating the Upper School campus water usage, the Project's estimated total water demand would be 370,000 gallons per month. By comparison, water demand for the existing golf course, driving range and tennis operation is, on average, 1,000,000 gallons per month (see Exhibit 10). This is approximately double the use from the Harvard-Westlake Upper School campus.

To ensure that LADWP has adequate infrastructure to support the Project, the domestic water demand was calculated using the LASAN sewage generation factor table to quantify the daily flow. The LASAN sewage generation factor table (Exhibit 9) assumes a conservative daily wastewater demand usage at any given time not including the irrigation water demand. The Project water consumption estimates are based on 110 percent of the LASAN sewage generation factors for the Project's various uses. Both the Project's proposed buildings and the existing clubhouse that will remain, were considered when estimating the domestic water demand. Unlike the wastewater generation table, the water demand estimated for the 52-meter swimming pool is determined by process flow. Therefore, as outlined in Table 5 below, the Project domestic water daily flow anticipating maximum domestic water demand usage at any given time is approximately 21.41 gpm (a net increase of 20.14 gpm from current conditions).

Based on Table 5, the Project's domestic water demand of 21.41 GPM will equate to 34.52 Acre-Feet per Calendar Year (ac-ft/yr), though the conversion from GPM to acrefeet per calendar year is highly conservative given that the GPM calculation assumes maximum theoretical, simultaneous demand at any given time across the entire Project Site and all its facilities. To calculate the total water demand for the Project the irrigation demand should be included. The proposed irrigation demand for the Project was calculated to be 3.3 million gallons a year, (see attached study prepared by Studio-MLA (Landscape Architect) Exhibit 11) which equates to 10.13 ac-ft/year. Combining the irrigation water demand with the Project's domestic water demand, the total water demand (domestic and irrigation) for the Project would be close to 44.65 ac-ft/year, though for reasons enumerated earlier that estimate is highly conservative and based on maximum simultaneous demand. Further, this estimate does not account for reuse of stormwater and other urban runoff collected through the Project's cistern system, which will have a capacity to store up to 1 million gallons of reclaimed water and, therefore,

reduce estimated water demand by 3.1 ac-ft/year with each significant rainfall event. Based on a review of utility bills for existing site uses, current golf and tennis operations consume approximately 37 ac-ft/year.

Table :	Table 5 – Maximum Estimated Proposed Domestic Water Consumption					
Building Use	Sewage Generation (GPD/1,000 Gr SF) ⁹	Units	Quantity	Total Generation (GPM) ¹⁰		
Gymnasium ¹	200	SF	80,249	12.26		
Parking Structure ²	20	SF	223,580	3.42		
Locker Rooms ⁴	650	SF	9,323	4.63		
Restrooms ⁵	250	SF	2,382	0.45		
Field B Sheds ⁶	30	SF	2,420	0.06		
Swimming Pool ⁷	Process Flow	-	1	0.34		
Clubhouse ⁸ (Existing Structure to Remain)	120	SF	2,700	0.25		
To	21.41					
	Existing Total Domestic Water Consumption ⁸					
	Net Increase in <u>Domestic Water Consumption</u>					

Gymnasium (Multi-purpose Gymnasium (2-story with basement)) – Gymnasium: Basketball, Volleyball (k) 200/1,000 Gr SF

² Parking Structure (Below-Grade Parking 503 spaces) – Auto Parking (a) 20/1,000 Gr SF

³ Security Kiosk – Equipment Booth 30/1,000 Gr SF

⁴ Locker Rooms (Field A, Field B, & Pool Area) – Health Club/Spa (k) 650/1,000 Gr SF

⁵ Restrooms (Field A, Field B & Pool Area) – Laboratory: Commercial 250/1,000 Gr SF

Storage & Sheds (Field B Shed & Maintenance shed, Pool equipment storage) – Storage: Building/Warehouse 30/1,000 Gr SF

Swimming Pool (Olympic Size Pool) – Swimming Pool (Commercial with backwash filters) Process Flow –the assumed daily wastewater flow, limited by backwater filters is 500 GPD. Per LASAN 500 GPD is the max process flow of a swimming pool.

Clubhouse to remain (Visitor Center) – Office Building 120/1,000 Gr SF. Refer to table 1. Existing Total Water Consumption deducted from the proposed to calculate the proposed net increase.

⁹ LASAN Sewage Generation Factor Table Exhibit 9.

¹⁰ The Project water consumption estimates are based on 110 percent of the LASAN sewage generation rates for the Project's various uses.

6.2.2. WASTEWATER

6.2.2.1 SEWER GENERATION

The potential impacts of the Project on the existing public sewer infrastructure are analyzed by comparing the estimated Project wastewater generation with the calculated available capacity of the existing facilities.

Pursuant to LAMC Section 64.15 LASAN Wastewater Engineering Division (WED), a preliminary analysis of the local and regional sewer conditions was created to determine if available wastewater conveyance and treatment capacity exists for future development of the Project Site. LASAN's approach consisted of the study of a worst-case scenario envisioning peak demands from the relevant facilities occurring simultaneously on the wastewater system. The sewage generation table also accounts for the need to completely drain the 52-meter pool, concurrent with peak wastewater generation from every other source on the Project Site. A very rare occurrence during the maintenance of a pool and operation of a site but, nonetheless, a condition that needs to be accounted for since the infrastructure would, in theory, need to support this occurrence. A combination of flow gauging data and computed results from the City's hydrodynamic model were used to project current and future impacts due to additional sewer discharge. The data used in this report are based on the findings of the LASAN preliminary analysis. Refer to Exhibit 4 for the Request for Wastewater Services Information (WWSI) prepared for the Project, which contains the results of the LASAN preliminary analysis.

In accordance with the *L.A. CEQA Thresholds Guide*, the future wastewater generation was estimated based on the Project's size and types of land uses and the LASAN sewerage generation factors. However, as outlined in Table 6 below and discussed in the preceding paragraph, LASAN requires the inclusion of a "full flush" of a pool when submitting a WWSI. Based on this highly conservative and maximum scenario, the Project would generate approximately 527,574 gallons per day (gpd) of wastewater for this occurrence or a net increase of approximately 525,923 gpd, or approximately 0.526 mgd on a worst-case analyzed day. For a standard SCAR during the design phase the Project can assume the process flow of (500 gpd) a pool as is shown in the Water Demand table (Table 5). As shown in Table 6, the total amount of wastewater generation for swimming pools is 500,000 gpd on a worst-case day. Therefore, typical daily wastewater flows for the Project Site would be approximately 28,074 gpd with 500 gpd of swimming pool process flow included rather than 500,000 gallons.

Table 6 – Maximum Estimated Proposed Wastewater Generation						
Building Use	Sewage Generation (GPD/1,000 Gr SF) ¹⁰	Units	Quantity	Total Generation (GPD)		
Gymnasium ¹	200	SF	80,249	16,050		
Parking Structure ²	20	SF	223,580	4,471		
Locker Rooms ⁴	650	SF	9,323	6,060		
Restrooms ⁵	250	SF	2,382	596		
Storage & Sheds ⁶	30	SF	2,420	73		
Swimming Pool ⁷	Total	-	1	500,000		
Clubhouse/Cafe ⁸ (Structure to Remain)	120	SF	2,700	324		
Total E	stimated Proposed	l Wastewa	ter Generation	527,574		
	Existing Total	Wastewat	er Generation ⁹	(1,651)		
	Net Increase	in <u>Wastewa</u>	ter Generation	525,923		

¹ Gymnasium (Multi-purpose Gymnasium (2-story with basement)) – Gymnasium: Basketball, Volleyball (k) 200/1,000 Gr SF

A Wastewater Services Information Request (WWSI) letter was submitted to see whether the existing public infrastructure can accommodate the Project. The Bureau of Sanitation has analyzed the Project demands in conjunction with existing conditions and forecasted growth. Refer to Exhibit 4 for the response letter from Bureau of Sanitation Wastewater Engineering Services Division. According to the response letter (Exhibit 4), the Project will need to split the expected flow into the two existing 8-inch sewer lines within Bellaire Ave to the east of the Project and Whitsett Ave to the west of the Project. The proposed connections are shown in Exhibit 1.

According to the WWSI prepared for the Project, the following two conditions are recommended for the Project to accommodate conditions during a full flushing of the Project's swimming pool:

1. Developer shall discharge the swimming pool volume during a 72-hour period at a rate not greater than 166,000 GPD per day.

² Parking Structure (Below-Grade Parking 503 spaces) – Auto Parking (a) 20/1,000 Gr SF

³ Security Kiosk – Equipment Booth 30/1,000 Gr SF

⁴ Locker Rooms (Field A, Field B, & Pool Area) – Health Club/Spa (k) 650/1,000 Gr SF

⁵ Restrooms (Field A, Field B & Pool Area) – Laboratory: Commercial 250/1,000 Gr SF

⁶ Storage & Sheds (Field B Shed & Maintenance shed, Pool equipment storage) – Storage: Building/Warehouse 30/1,000 Gr SF

⁷ Swimming Pool (Fifty-Two Meter Pool) – Swimming Pool (Commercial with backwash filters) Total –the volume of the pool in gallons to achieve full flush per WWSI.

⁸Clubhouse to remain (Visitor Center) – Office Building 120/1,000 Gr SF

⁹ Refer to Table 4.

¹⁰ LASAN Sewage Generation Factor Table Exhibit 9

2. Developer shall split the resulting flow (from a full discharge of the swimming pool) (50% of the resulting volume) into the 8-inch lines on Bellaire Avenue and Whitsett Avenue.¹

Condition 1 would be required for the Project. Condition 2 would also be required for the Project, unless an alternative split is otherwise approved by LASAN based on future detailed gauging and evaluation as part of the final approval process for the sewer capacity and connection permit.

As discussed above, the sewer infrastructure in the vicinity of the Project Site includes two existing sewer line systems. First, there is an existing 8-inch line on Bellaire Avenue that discharges into a 48-inch line on Woodbridge Street. Second, there is an existing 8-inch line on Whitsett Avenue. The sewage of the 8-inch line feeds into a 15-inch line on Valleyheart Drive before ultimately discharging into a 48-inch line on Woodbridge Street. Future detailed gauging and evaluation will be needed as part of the standard permit process to identify a specific sewer connection point and confirm the sewer capacity near the time of Project development. Although not anticipated, if the public sewer lacks sufficient capacity, then the Project would be required to upgrade sewer lines to a point in the sewer system with sufficient capacity. As discussed above, the localized lines in Bellaire Avenue, Whitsett Avenue and Valleyheart Drive all eventually feed into the 48-inch line in Woodbridge Street, which has over 700,000 gallons of capacity remaining to reach the 50% design capacity.

By limiting the daily discharge of the swimming pool to 166,000 gallons per the first condition (as required by Condition 1), the Project's worst-case daily wastewater generation would be reduced from 527,579 gallons to 193,579 gallons. Thus, the daily net increase (proposed – existing) in wastewater generation would be reduced from 525,928 gallons to 191,928 gallons with Condition 1 in place. Because the net increase of 193,579 gallons would be far less than the available 700,000 gallons of capacity in the Woodbridge Street line, any potential upgrades would be limited to the localized lines in Bellaire Avenue, Whitsett Avenue and/or Valleyheart Drive. Thus, with implementation of the two conditions above, including that Condition 2 could potentially be modified if alternative split is otherwise approved by LASAN based on future detailed gauging and evaluation as part of the final approval process for the sewer capacity and connection permit, and in consideration of the Project's typical daily wastewater generation of approximately 28,080 gpd, the localized lines would accommodate the typical wastewater flow for the Project.

A final approval for sewer capacity and connection permit would be made at the time of permitting. In addition, Project-related sanitary sewer connections and on-site infrastructure would be designed and constructed in accordance with applicable LASAN and California Plumbing Code standards. Furthermore, in accordance with LAMC Sections 64.11 and 64.16.1, the Project would pay the required sewer connection fees to help offset the Project's contribution to the City's wastewater collection infrastructure needs.

The condition included in the WWSI has been revised herein to clarify this condition applies to the scenario when a full discharge of the swimming pool would occur.

Ultimately, this sewage flow would be conveyed to the HWRP, which has sufficient capacity for the Project.

To address the Project's worst-case daily wastewater generation scenario of 527,579 gpd which could result in potentially significant impacts regarding the capacity of the sewer system, the Project would be required to implement the conditions recommended by LASAN in the WWSI, again, understanding that for Condition 2, an alternative split could ultimately be determined acceptable by LASAN based on future detailed gauging and evaluation as part of the final approval process for the sewer capacity and connection permit.

Construction of any on-or off-site wastewater infrastructure connections or upgrades would occur as discussed under the Construction impact analysis, above.

The Project's conservative worst-case daily net increase in wastewater generation of 0.526 mgd (prior to Conditions 1 and 2) would represent 0.30 percent of the current estimated 175 mgd of remaining available capacity at the HWRP. In addition, with regard to future flows, the Project's net increase of 0.526 mgd plus the projected 2025 flows of approximately 265.5 mgd¹ to the HWRP would represent 59.1 percent of the HWRP's assumed future capacity of 450 mgd. Thus, the HWRP would have available capacity to treat the Project's wastewater generation.

Based on the above, the Project would not require or result in the relocation or construction of new or expanded wastewater treatment facilities associated with the HWRP.. However, the local sewer system may not have adequate capacity to serve the Project's projected maximum daily demand in addition to existing commitments. Therefore, Conditions 1 and 2 are required to ensure the local sewer system can accommodate the Project.

Furthermore, based on the above, there is adequate treatment capacity to serve the Project's projected demand in addition to existing LASAN commitments. As such, the Project would result in a determination by the wastewater treatment provider, which serves or may serve the Project, that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments.

6.2.3 ENERGY

ELECTRICITY

The Project will increase the demand for electricity resources. Based on analysis performed using CalEEMod software, the estimated projected electrical loads are provided in by an analysis conducted by ESA attached as Exhibit 7 Table 1.

The study found total net electricity demand for the Project to be 1,811.2 MWh/year.

Harvard-Westlake River Park Project Environmental Impact Report February 2022

¹ Los Angeles Department of Water and Power, One Water LA 2040 Plan-Volume 2, Table ES.1, Projected Wastewater Flows. Based on a straight-line interpolation of the projected flows for the Hyperion Water Reclamation Plant for 2020 (approximately 256 mgd) and 2030 (approximately 275 mgd). The 2025 value is extrapolated from 2020 and 2030 values: [(275 mgd – 256 mgd)/10) * 5] + 256 = 265.5 mgd.

A will serve letter was sent to LADWP to determine if there is sufficient capacity to serve the Project. Based on the response from LADWP (see Exhibit 5), electrical service is available and can be served to the Project.

NATURAL GAS

The Project will increase the demand for natural gas resources, based on analysis performed by EAS using CalEEMod software and attached this report as Exhibit 7. The estimated projected natural gas loads can be found in Exhibit 7 Table 2.

The study found total net natural gas demand for the Project to be 1,663,510 cubic feet/year.

A will serve letter was sent to SoCalGas to determine if there is sufficient natural gas capacity to serve the Project. Refer to Exhibit 6 for response letter indicating that there is sufficient natural gas capacity to serve the Project.

6.3. CUMULATIVE IMPACTS

6.3.1 WATER INFRASTRUCTURE

Development of the Project, in conjunction with the related projects, would cumulatively increase service demand on the existing water infrastructure system. However, each related project would be subject to City review to assure that the existing public utility facilities would be adequate to meet the domestic and fire water demands of each project. The five related projects referenced in Chapter III of the Draft EIR under the Traffic MLU table, include 12833 Ventura Boulevard commercial, 12548 Ventura Boulevard mixed use, 12582 Ventura Boulevard mixed use, 12544 Ventura Boulevard mixed use, and 12833 Ventura Boulevard mixed use. All five properties are south of the Project Site and south of the LA River. All projects are required to obtain a SAR and IFFAR, based on flow testing of facilities, to verify that there is available domestic and fire water service. Individual projects are required to improve facilities where appropriate and development cannot proceed without appropriate verification and approval. Furthermore, LADWP, together with the City's Department of Public Works, conducts ongoing evaluations to ensure facilities are adequate and requires infrastructure system improvements as needed. Based on these facts and the above analysis relating to the Project's construction and operational impacts on the City's water infrastructure system, the Project's incremental effects on the water infrastructure system would not be cumulatively considerable. The Project should not cause any impacts on the five related projects along Ventura Blvd. The Project's cumulative impacts on water infrastructure would be less than significant.

6.3.2 WASTEWATER

Five (5) related projects that anticipated to be developed within the Project vicinity. Operation of these 5 related projects would cumulatively contribute, in conjunction with the Project, to wastewater generation in the Hyperion Service Area. For purposes of this

analysis, wastewater generated by the related projects is assumed to be treated at the HWRP.

The Project would result in less-than-significant impacts with regard to wastewater treatment facilities associated with the Hyperion Service Area and HWRP. However, Conditions 1 and 2 per the WWSI are required to be implemented by the Project to ensure adequate capacity of the local sewer system is maintained. As discussed above, operation of the Project on a worst-case day (prior to Condition 1 and assuming a full flush of the pool) would generate approximately 525,923 gpd of wastewater (net of existing uses), or 0.526 mgd. With Condition 1, the daily net increase in wastewater generation would be reduced from 525,923 gallons to 191,923 gallons. However, typical daily wastewater flows for the Project Site would be approximately 28,074 gpd. The maximum worst-case day typically would only occur during highly infrequent but nonetheless significant maintenance of the pool.

As shown in **Table 7**, Estimated Cumulative Operational Wastewater Generation, the estimated average wastewater dry weather flow generation associated with the related projects is up to 329,897 gpd or 0.330 mgd. As indicated, the Project under the highly conservative worst-case day scenario prior to Condition 1 would contribute an additional 525,923 gpd of wastewater, or 0.526 mgd of wastewater dry weather flow. The estimated generation for the Project (prior to Condition 1) and the related projects would result in a combined total of approximately 855,820 gpd or 0.855 mgd of average wastewater dry weather flow. This represents approximately 0.49 percent of the HWRP's total remaining daily capacity of 175 mgd. The Project with Condition 1 under the worst-case day scenario would contribute an additional 191,923 gpd of wastewater, or 0.192 mgd of wastewater dry weather flow. The estimated generation for the Project (with Condition 1) and the related projects would result in a combined total of approximately 521,820 gpd or 0.522 mgd of average wastewater dry weather flow. This represents approximately 0.30 percent of the HWRP's total remaining daily capacity of 175 mgd. These estimates do not account for reductions in wastewater generation that would occur with implementation of conservation measures for the related projects or the Project.

Accordingly, the Project's impacts, when considered together with the impacts of the related projects, would not result in a cumulatively considerable contribution to a significant cumulative impact related to wastewater treatment system capacity at the HWRP.

As with the Project, all related projects would be subject to the provisions of the LAMC requiring provision of on-site infrastructure, improvements to address local capacity issues and payment of fees for future sewerage replacement and/or relief improvements. As discussed above for the Project, Conditions 1 and 2 from the WWSI are required to ensure its wastewater generation does not exceed the capacity of the local system. As with the Project, related projects would be subject to LAMC Section 64.15, which requires a determination by LASAN that there is sufficient sewer capacity available for each project. The City would continue to review new development projects to ensure that sewer capacity is available prior to the on-set of construction, and fees and mitigation included requirements to improve infrastructure if necessary to account for the project would be required. Related projects connecting to the surrounding sewer system is required to obtain

a sewer connection permit and submit a SCAR and/or WWWSI request to LASAN as part of the related project's development review. Impact determination will be provided following the completion of the WWSI analysis. If system upgrades are required as a result of a given related project's additional flow, arrangements would be made between the related project and the LASAN to construct the necessary improvements.

Also, in accordance with LAMC Section 64.11, the Project and the related projects would pay the required sewer connection fees to further assist in offsetting their contribution to City wastewater treatment infrastructure needs. Therefore, impacts of the Project with the WWSI conditions on the City's wastewater infrastructure would not be cumulatively considerable, and cumulative impacts would be less than significant.

Table 7 - Estimated Cumulative Operational Wastewater Generation

Related Project No.	Land Uses	Quantity	Generation Factor	Average Daily Wastewater Generated (gpd)
1	Health	91.466 ksf		
	Club/Restaurant	(6,098 seats) ^a	30 gpd/seat	182,940
2	Retail	10.747 ksf	50 gpd/ksf	537
	Apartments	62 du	150 gpd/du	9,300
	Other ^b	1.925 ksf	50 gpd/ksf	96
3	Other ^b	15.7 ksf	50 gpd/ksf	785
4	Otherb	12.782 ksf	50 gpd/ksf	639
5	Apartments	504 du	150 gpd/du	75,600
	Restaurant	30 ksf		60,000
		(2,000 seats) ^c	30 gpd/seat	00,000
	Related Projects Sub	total (without Project)d		329,897
	Net Project Total (wor	st-case day – prior to W	WSI conditions)	525,923
	Cumulative Total wit	855,820		
	Net Project Total (wor	191,923		
	Cumulative Total with	521,820		

NOTES: ksf = thousand square feet; gpd = gallons per day; du = dwelling units

^a Conservatively assumed entire square footage for this use is restaurant. Restaurants assume each seat will occupy 15 square feet.

^b "Other" uses conservatively assumed to be retail uses.

^c Restaurants assume each seat will occupy 15 square feet.

^d Totals may not add up due to rounding.

6.3.3 ENERGY

The geographic context for the cumulative analysis of electricity is LADWP's service area and the geographic context for the cumulative analysis of natural gas is SoCalGas' service area. Similarly, transportation energy use is the City of Los Angeles. Growth within these collective areas is anticipated to increase the demand for electricity, natural gas, and transportation energy, as well as the need for energy infrastructure, such as new or expanded energy facilities.

Buildout of the Project, the five related projects along Ventura Blvd, and additional growth forecasted to occur in the City would increase electricity consumption during Project construction and operation and, thus, cumulatively increase the need for energy supplies and infrastructure capacity, such as new or expanded energy facilities. LADWP forecasts that its total energy sales in the 2021-2022 fiscal year (the Project buildout year 2025) will be 2,965 gigawatt-hours (GWh) of electricity. Based on the Project's estimated net new electrical consumption of 1.81 GWh/year (ESA Energy Memo Exhibit 7), the Project would account for approximately 0.007 % of LADWP's projected sales for the Project's build-out year. Although future development would result in the irreversible use of renewable and non-renewable electricity resources during Project construction and operation which could limit future availability, the use of such resources would be on a relatively small scale and would be consistent with growth expectations for LADWP's service area. Furthermore, like the Project, during construction and operation, other future development projects would incorporate energy conservation features, comply with applicable regulations including CALGreen and State energy standards under Title 24, and incorporate mitigation measures, as necessary. Accordingly, the Project's contribution to cumulative impacts related to electricity consumption would not be cumulatively considerable and, thus, would be less than significant.

Electricity infrastructure is typically expanded in response to increasing demand, and system expansion and improvements by LADWP are ongoing. As described in LADWP's 2015 Power Integrated Resource Plan, LADWP would continue to expand delivery capacity as needed to meet demand increases within its service area at the lowest cost and risk consistent with LADWP's environmental priorities and reliability standards. LADWP has indicated that the Power Integrated Resource Plan incorporates the estimated electricity requirement for the Project. The Power Integrated Resource Plan takes into account future energy demand, advances in renewable energy resources and technology, energy efficiency, conservation, and forecast changes in regulatory requirements. Development projects within the LADWP service area would also be anticipated to incorporate site-specific infrastructure improvements, as necessary. Each of the five related projects would be reviewed by LADWP to identify necessary power facilities and service connections to meet the needs of their respective projects. Project applicants would be required to provide for the needs of their individual projects, thereby contributing to the electrical infrastructure in the Project area. As such, the Project's contribution to cumulative impacts with respect

¹ LADWP, 2015 Power Integrated Resource Plan, Appendix A, Table A-1.

to electricity infrastructure would not be cumulatively considerable and, thus, would be less than significant.

Buildout of the Project and five related projects along Ventura Blvd in SoCalGas' service area is expected to increase natural gas consumption during Project construction and operation and, thus, cumulatively increase the need for natural gas supplies and infrastructure capacity. Based on the 2020 California Gas Report, the California Energy Commission estimates natural gas consumption within SoCalGas' planning area will be approximately 3,175 million cubic feet/day in 2022. The Project's 0.005 million cubic feet/day (ESA Energy Memo Exhibit 7) would account for approximately 0.0002 percent of the 2025 forecasted consumption in SoCalGas's planning area. SoCalGas' forecasts consider projected population growth and development based on local and regional plans. Although future development projects would result in the irreversible use of natural gas resources which could limit future availability, the use of such resources would be on a relatively small scale and would be consistent with regional and local growth expectations for SoCalGas' service area. Furthermore, like the Project, during project construction and operation other future development projects would be expected to incorporate energy conservation features, comply with applicable regulations including CALGreen and State energy standards under Title 24, and incorporate mitigation measures, as necessary. Accordingly, the Project's contribution to cumulative impacts related to natural gas consumption would not be cumulatively considerable and, thus, would be less than significant.

Natural gas infrastructure is typically expanded in response to increasing demand, and system expansion and improvements by SoCalGas occur as needed. It is expected that SoCalGas would continue to expand delivery capacity if necessary to meet demand increases within its service area. Development projects within its service area would also be anticipated to incorporate site-specific infrastructure improvements, as appropriate. As such, cumulative impacts with respect to natural gas infrastructure would not be cumulatively considerable and, thus, would be less than significant.

7. LEVEL OF SIGNIFICANCE

Based on the analysis contained in this report the existing municipal water, wastewater and energy infrastructure is adequate to meet the demand of the Project. The results from the IFFAR and the SARs completed by LADWP show that the existing water infrastructure is adequate to meet the water demand of the Project. The results of the WWSI letter from LASAN show that the existing wastewater infrastructure is sufficient to meet Project demand with the conditions recommended in the WWSI. Per the conditions, LASAN requires the Project to split the sewer generation into two connections to the surrounding infrastructure. Due to the volume of the 52-meter pool, a full flush would need to be conducted over a three-day period to not overwhelm the surrounding infrastructure. The will serve letter from LADWP shows that the existing electrical infrastructure is sufficient to meet the electrical demand of

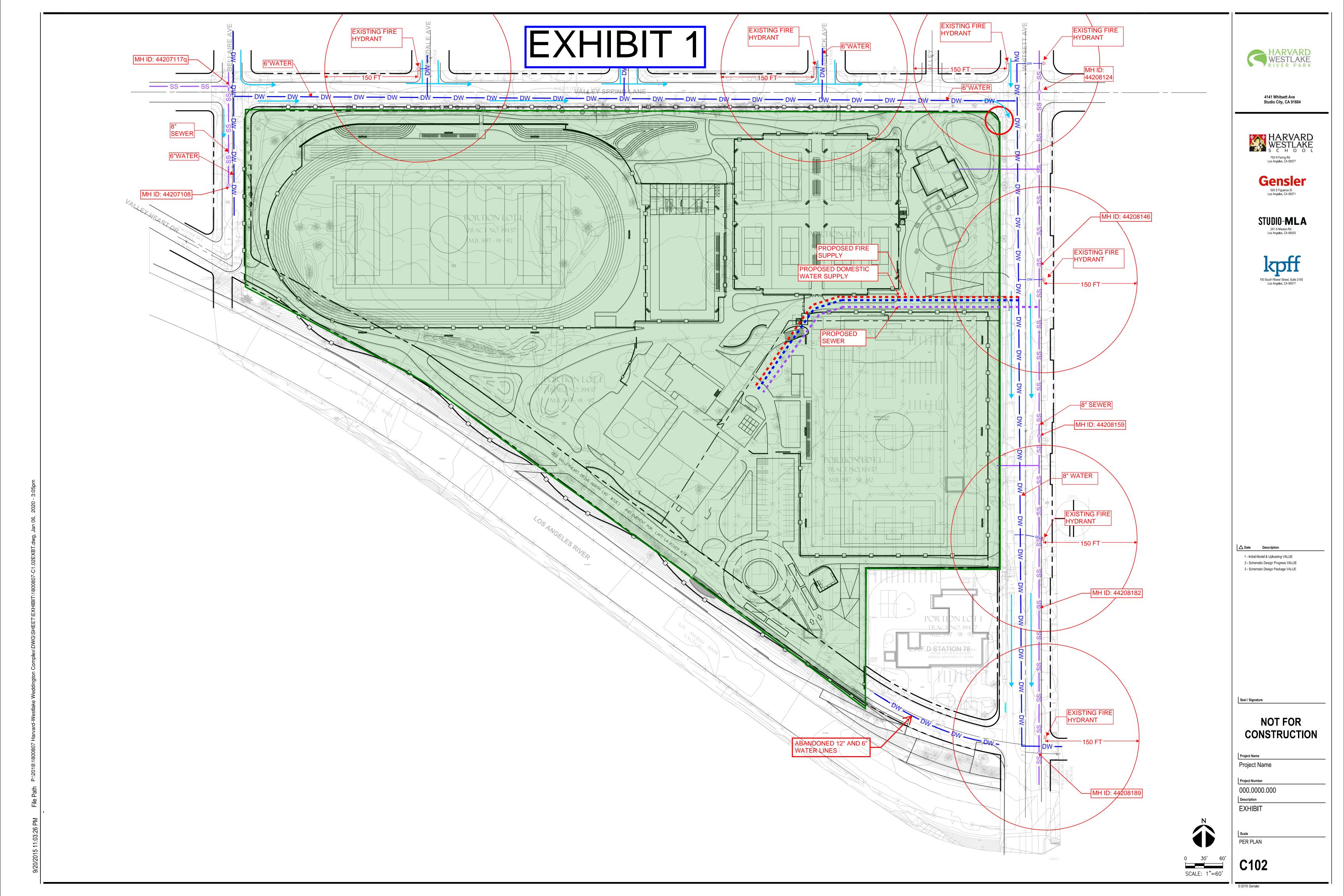
California Gas and Electric Utilities, 2020 California Gas Report, p. 158.

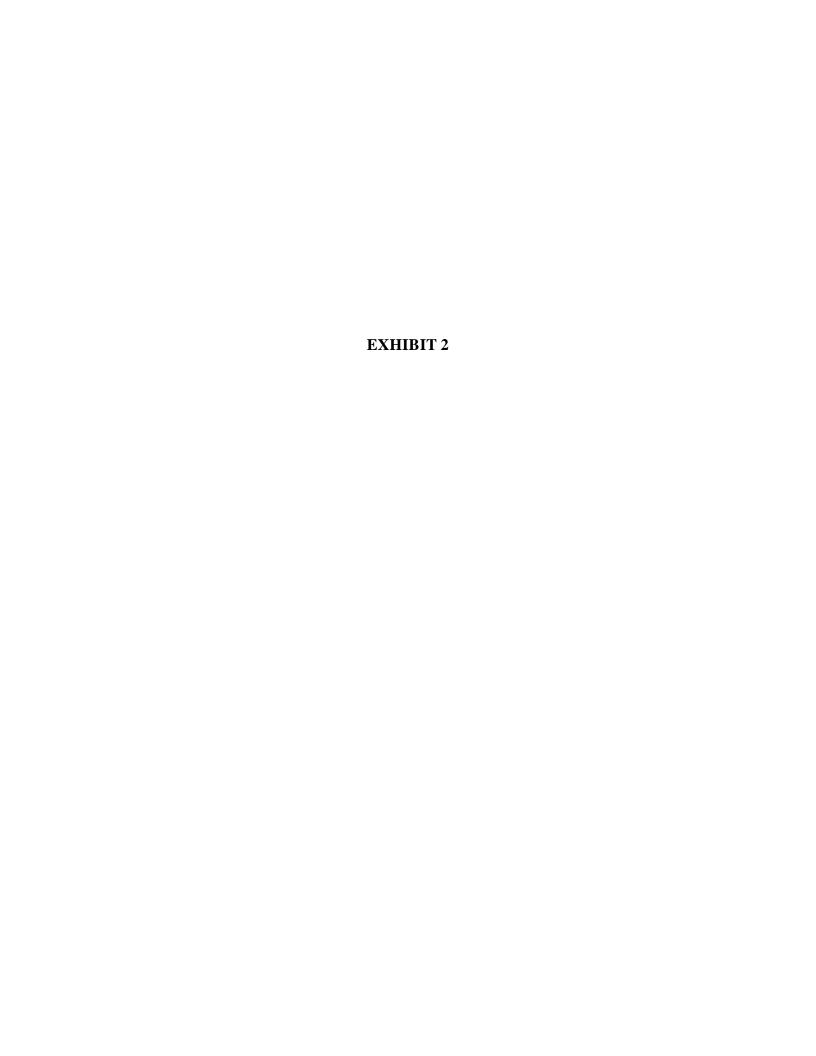
the Project. The will serve letter from SoCalGas shows that the existing gas infrastructure is sufficient to meet the gas demand of the Project.

Therefore, the existing municipal water, wastewater, and energy infrastructure has sufficient capacity to accommodate the Project and no significant off-site improvements will be required.



EXHIBIT 1







City of Los Angeles

Los Angeles Department of Water and Power - Water System

INFORMATION OF FIRE FLOW AVAILABILITY

LAFD Fire Flow Requiremen	t: 2,000 GPM (3	B Hydrants)	Water Service Map No. LAFD Signature:	
Applicant:	Ike Bottita		Date Signed:	
Company Name:	KPFF Consulting	Engineers		
Address:	700 S Flower Street			
Telephone:	213-607-2250			
Email Address:	ike.bottita@kpff.ce	om	-	
	F 74574	F- 74808	F- 50654	CYNTHIA TAYLOR
Location:	343' north of the intersection of Valley Heart	296' south of the intersection of Valley spring	NW corner of the	NOV 23 2020

			F- 30034	
Location:	343' north of the intersection of Valley Heart Dr. and Whitsett Ave.	intersection of Valley spring	NW corner of the intersection of Babcock Ave, and Valley Spring Ln.	NOV 23 2020
Distance from Neareast	1 10	40	44	1
Pipe Location (feet):	40	40	14	
Hydrant Size:	2 1/2 X 4D	2 1/2 X 4D	2 1/2 X 4D	
Water Main Size (in):	8	8	6	
Static Pressure (psi):		197 psi	197 psi	1
Residual Pressure (psi):	140 psi	138 psi	140 psi	1
Flow at 20 psi (gpm):	2000 gpm	2000 gpm	2000 gpm	1

NOTE: Data obtained from hydraulic analysis using peak hour.

Remarks:			ECMR No.	W202011127004
		77		
Water Purveyor:	Los Angeles Department of Water & Power		Date:	12/7/2020
Signtature:	Lyndon Tat	Title: _	Civil Engineering Ass	sociate

Requests must be made by submitting this completed application, along with a \$235.00 check payable to:

"Los Angeles Department of Water and Power", and mailed to:

Los Angeles Department of Water and Power Distribution Engineering Section - Water

Attn: Business Arrangements P.O. Box 51111 - Room 1425 Los Angeles, CA 90051-5700

^{*} If you have any questions, please contact us at (213) 367-2130 or visit our web site at http://www.ladwp.com.

EXHIBIT 3



City of Los Angeles

Los Angeles Department of Water and Power - Water System



SAR NUMBER 89413

Fire Service Pressure Flow Report

Proposed S	ervice 8 INCH off of the	
8	inch main in WHITSETT AVE on the WEST side approximately	
336	feet SOUTH of CENTERLINE of VALLEY SPRING LN The System maximum	m pressure is
198	psi based on street curb elevation of 624 feet above sea level at this location.	

Residual Flow/Pressure Table for water system street main at this location Flow Press. Flow Press. Flow Press. (psi) (gpm) (psi) (psi) (gpm) (gpm)

Meter Assembly Capacities

Domestic	c Meters
1 inch =	56 gpm
1-1/2 inch =	96 gpm
2 inch =	160 gpm
3 inch =	220 gpm
4 inch =	400 gpm
6 inch =	700 gpm
8 inch =	1500 gpm
10 inch =	2500 gpm

Fire Service			
2 inch = 250 gpm			
4 inch = 600 gpm			
6 inch = 1400 gpm			
8 inch = 2500 gpm			
10 inch = 5000 gpm			

FM Services			
8 inch = 2500 gpm			
10 inch = 5000 gpm			

These values are subject to change due to changes in system facilities or demands.

Notes: ok to sell combo service

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 12-03-20. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

For additional information contact the Water Distribution Services SectiorE. VALLEY (213) 367-1242

LYNDON TAT	LYNDON TAT	164-165	
Prepared by	Approved by	Water Service Map	

EXHIBIT 4

CITY OF LOS ANGELES

CALIFORNIA

BUREAU OF SANITATION

ENRIQUE C. ZALDIVAR DIRECTOR

TRACI J. MINAMIDE CHIEF OPERATING OFFICER

LISA B. MOWERY CHIEF FINANCIAL OFFICER MAS DOJIRI

JOSE P. GARCIA ALEXANDER E. HELOU ASSISTANT DIRECTORS

TIMEYIN DAFETA HYPERION EXECUTIVE PLANT MANAGER WASTEWATER ENGINEERING

SERVICES DIVISION 2714 MEDIA CENTER DRIVE LOS ANGELES, CA 90065 FAX: (323) 342-6210

WWW.LACITYSAN.ORG



PRESIDENT AURA GARCIA VICE PRESIDENT

BOARD OF PUBLIC WORKS

MEMBERS

GREG GOOD

DR. MICHAEL R. DAVIS PRESIDENT PRO TEMPORE

JESSICA M. CALOZA COMMISSIONER

M. TERESA VILLEGAS COMMISSIONER

November 19, 2020

Mrs. Charlotte Harrop, Project Engineer **KPFF** Consulting Engineers 700 S Flower Street, #210 Los Angeles, CA 90017

Dear Mrs. Harrop,

HARVARD-WESTLAKE RIVER PARK - REQUEST FOR WASTEWATER SERVICE **INFORMATION**

This is in response to your October 23, 2020 letter requesting a review of your proposed mixed-use project located at 4141 Whitsett Avenue, Studio City, CA 91604. The project will consist of upgrades on an existing golf course. LA Sanitation has conducted a preliminary evaluation of the potential impacts to the wastewater and stormwater systems for the proposed project.

WASTEWATER REQUIREMENT

LA Sanitation, Wastewater Engineering Services Division (WESD) is charged with the task of evaluating the local sewer conditions and to determine if available wastewater capacity exists for future developments. The evaluation will determine cumulative sewer impacts and guide the planning process for any future sewer improvement projects needed to provide future capacity as the City grows and develops.

Projected Wastewater Discharges for the Proposed Project:

	rojetta waste water 2 menungan iar the riopenta riojetti				
Type Description	Average Daily Flow per Type Description (GPD/UNIT)	Proposed No. of Units	Average Daily Flow (GPD)		
Existing Buildings To be Removed					
Field Buildings	30 GPD/1000 SQ.FT	3,900 SQ.FT	117		
Parking Lot	20 GPD/1000 SQ.FT	60,500 SQ.FT	1,210		
	1,327				
Proposed and Existing Building to					
Gymnasium	200 GPD/1000 SQ.FT	80,249	16,050		

Daga	1	of.	5
Page	7	OI	J

Parking Structure	20 GPD/1000 SQ.FT	223,580 SQ.FT	4,472
Security Kiosk	30 GPD/1000 SQ.FT	180 SQ.FT	5
Locker Rooms	650 GPD/1000 SQ.FT	9,323 SQ.FT	6,060
Restrooms	250 GPD/1000 SQ.FT	2,382 SQ.FT	596
Storage/Sheds	30 GPD/1000 SQ.FT	2,420 SQ.FT	73
Swimming Pool	N/A	N/A	500,000
Club House	120 GPD/1000 SQ.FT	2,700 SQ.FT	324
S	527,580		
Net	(1,327)		
Total I	526,253		

SEWER AVAILABILITY

The sewer infrastructure in the vicinity of the proposed project includes two existing sewer lines as follows:

There is an existing 8-inch line on Bellaire Ave. that discharges into a 48-inch line on Woodbridge St. Figure 1 shows the details of this sewer system within the vicinity of the project. The current flow level (d/D) in the 8-inch line cannot be determined at this time without additional gauging.

The current approximate flow level (d/D) and the design capacities at d/D of 50% in this sewer system are as follows:

Pipe Diameter (in)	Pipe Location	Current Gauging d/D (%)	50% Design Capacity	
8 Bellaire Ave.		*	229,000 GPD.	
48	Woodbridge St.	46	17.77 MGD.	

^{*} No gauging available

There is an existing 8-inch line on Whitsett Ave. The sewage of the 8-inch line feeds into a 15-inch line on Valleyheart Dr before discharging into a 48-inch line on Woodbridge St. Figure 2 shows the details of this sewer system within the vicinity of the project. The current flow levels (d/D) in the 8-inch line and the 15-inch line cannot be determined at this time without additional gauging.

The current approximate flow level (d/D) and the design capacities at d/D of 50% in this sewer system are as follows:

Pipe Diameter (in)	Pipe Location	Current Gauging d/D (%)	50% Design Capacity
8	Whitsett Ave.	*	229,000 GPD.
15	Valleyheart Dr.	*	348,000 GPD.
48	Woodbridge St.	46	17.77 MGD.

Based on estimated flows, it appears the sewer system might be able to accommodate the total flow for your proposed project under two conditions:

- 1- Developer shall discharge the swimming pool volume during a 72-hour period at a rate not greater than 166,000 GPD per day.
- 2- Developer shall split the resulting flow (50% of the resulting volume) into the 8-inch lines described above.

Harvard-Westlake River Park - Request for WWSI November 19, 2020 Page 3 of 5

Further detailed gauging and evaluation will be needed as part of the permit process to identify a specific sewer connection point. If the public sewer lacks sufficient capacity, then the developer will be required to build sewer lines to a point in the sewer system with sufficient capacity. A final approval for sewer capacity and connection permit will be made at the time. Ultimately, this sewage flow will be conveyed to the Hyperion Water Reclamation Plant, which has sufficient capacity for the project.

All sanitary wastewater ejectors and fire tank overflow ejectors shall be designed, operated, and maintained as separate systems. All sanitary wastewater ejectors with ejection rates greater than 30 GPM shall be reviewed and must be approved by LASAN WESD staff prior to other City plan check approvals. Lateral connection of development shall adhere to Bureau of Engineering Sewer Design Manual Section F 480.

If you have any questions, please call Christopher DeMonbrun at (323) 342-1567 or email at chris.demonbrun@lacity.org.

STORMWATER REQUIREMENTS

LA Sanitation, Stormwater Program is charged with the task of ensuring the implementation of the Municipal Stormwater Permit requirements within the City of Los Angeles. We anticipate the following requirements would apply for this project.

POST-CONSTRUCTION MITIGATION REQUIREMENTS

In accordance with the Municipal Separate Storm Sewer (MS4) National Pollutant Discharge Elimination System (NPDES) Permit (Order No. R4-2012-0175, NPDES No. CAS004001) and the City of Los Angeles Stormwater and Urban Runoff Pollution Control requirements (Chapter VI, Article 4.4, of the Los Angeles Municipal Code), the Project shall comply with all mandatory provisions to the Stormwater Pollution Control Measures for Development Planning (also known as Low Impact Development [LID] Ordinance). Prior to issuance of grading or building permits, the applicant shall submit a LID Plan to the City of Los Angeles, Public Works, LA Sanitation, Stormwater Program for review and approval. The LID Plan shall be prepared consistent with the requirements of the Planning and Land Development Handbook for Low Impact Development.

Current regulations prioritize infiltration, capture/use, and then biofiltration as the preferred stormwater control measures. The relevant documents can be found at: www.lacitysan.org. It is advised that input regarding LID requirements be received in the preliminary design phases of the project from plan-checking staff. Additional information regarding LID requirements can be found at: www.lacitysan.org or by visiting the stormwater public counter at 201 N. Figueroa, 2nd Fl, Suite 280.

GREEN STREETS

The City is developing a Green Street Initiative that will require projects to implement Green Street elements in the parkway areas between the roadway and sidewalk of the public right-of-way to capture and retain stormwater and urban runoff to mitigate the impact of stormwater runoff and other environmental concerns. The goals of the Green Street elements are to improve the water quality of stormwater runoff, recharge local groundwater basins, improve air quality, reduce the heat island effect of street pavement, enhance pedestrian use of sidewalks, and encourage alternate means of transportation. The Green Street elements may include infiltration systems, biofiltration swales, and permeable pavements where stormwater can be easily directed from the streets into the parkways and

File Location: CEQA Review\FINAL CEQA Response LTRs\FINAL DRAFT\Harvard-Westlake River Park - Request for WWSI.docx

Harvard-Westlake River Park - Request for WWSI November 19, 2020 Page 4 of 5

can be implemented in conjunction with the LID requirements. Green Street standard plans can be found at: www.eng2.lacity.org/techdocs/stdplans/

CONSTRUCTION REQUIREMENTS

All construction sites are required to implement a minimum set of BMPs for erosion control, sediment control, non-stormwater management, and waste management. In addition, construction sites with active grading permits are required to prepare and implement a Wet Weather Erosion Control Plan during the rainy season between October 1 and April 15. Construction sites that disturb more than one-acre of land are subject to the NPDES Construction General Permit issued by the State of California, and are required to prepare, submit, and implement the Storm Water Pollution Prevention Plan (SWPPP).

If there are questions regarding the stormwater requirements, please call WPP's plan-checking counter at (213) 482-7066. WPD's plan-checking counter can also be visited at 201 N. Figueroa, 2nd Fl, Suite 280.

GROUNDWATER DEWATERING REUSE OPTIONS

The Los Angeles Department of Water and Power (LADWP) is charged with the task of supplying water and power to the residents and businesses in the City of Los Angeles. One of the sources of water includes groundwater. The majority of groundwater in the City of Los Angeles is adjudicated, and the rights of which are owned and managed by various parties. Extraction of groundwater within the City from any depth by law requires metering and regular reporting to the appropriate Court-appointed Watermaster. LADWP facilitates this reporting process, and may assess and collect associated fees for the usage of the City's water rights. The party performing the dewatering should inform the property owners about the reporting requirement and associated usage fees.

On April 22, 2016 the City of Los Angeles Council passed Ordinance 184248 amending the City of Los Angeles Building Code, requiring developers to consider beneficial reuse of groundwater as a conservation measure and alternative to the common practice of discharging groundwater to the storm drain (SEC. 99.04.305.4). It reads as follows: "Where groundwater is being extracted and discharged, a system for onsite reuse of the groundwater, shall be developed and constructed. Alternatively, the groundwater may be discharged to the sewer."

Groundwater may be beneficially used as landscape irrigation, cooling tower make-up, and construction (dust control, concrete mixing, soil compaction, etc.). Different applications may require various levels of treatment ranging from chemical additives to filtration systems. When onsite reuse is not available the groundwater may be discharged to the sewer system. This allows the water to be potentially reused as recycled water once it has been treated at a water reclamation plant. If groundwater is discharged into the storm drain it offers no potential for reuse. The onsite beneficial reuse of groundwater can reduce or eliminate costs associated with sewer and storm drain permitting and monitoring. Opting for onsite reuse or discharge to the sewer system are the preferred methods for disposing of groundwater.

To help offset costs of water conservation and reuse systems, LADWP offers a Technical Assistance Program (TAP), which provides engineering and technical assistance for qualified projects. Financial incentives are also available. Currently, LADWP provides an incentive of \$1.75 for every 1,000 gallons of water saved during the first two years of a five-year conservation project. Conservation projects that last 10 years are eligible to receive the incentive during the first four years. Other water

Harvard-Westlake River Park - Request for WWSI November 19, 2020 Page 5 of 5

conservation assistance programs may be available from the Metropolitan Water District of Southern California. To learn more about available water conservation assistance programs, please contact LADWP Rebate Programs 1-888-376-3314 and LADWP TAP 1-800-544-4498, selection "3".

For more information related to beneficial reuse of groundwater, please contact Greg Reed, Manager of Water Rights and Groundwater Management, at (213)367-2117 or greg.reed@ladwp.com.

SOLID RESOURCE REQUIREMENTS

The City has a standard requirement that applies to all proposed residential developments of four or more units or where the addition of floor areas is 25 percent or more, and all other development projects where the addition of floor area is 30 percent or more. Such developments must set aside a recycling area or room for onsite recycling activities. For more details of this requirement, please contact LA Sanitation Solid Resources Recycling hotline 213-922-8300.

Sincerely,

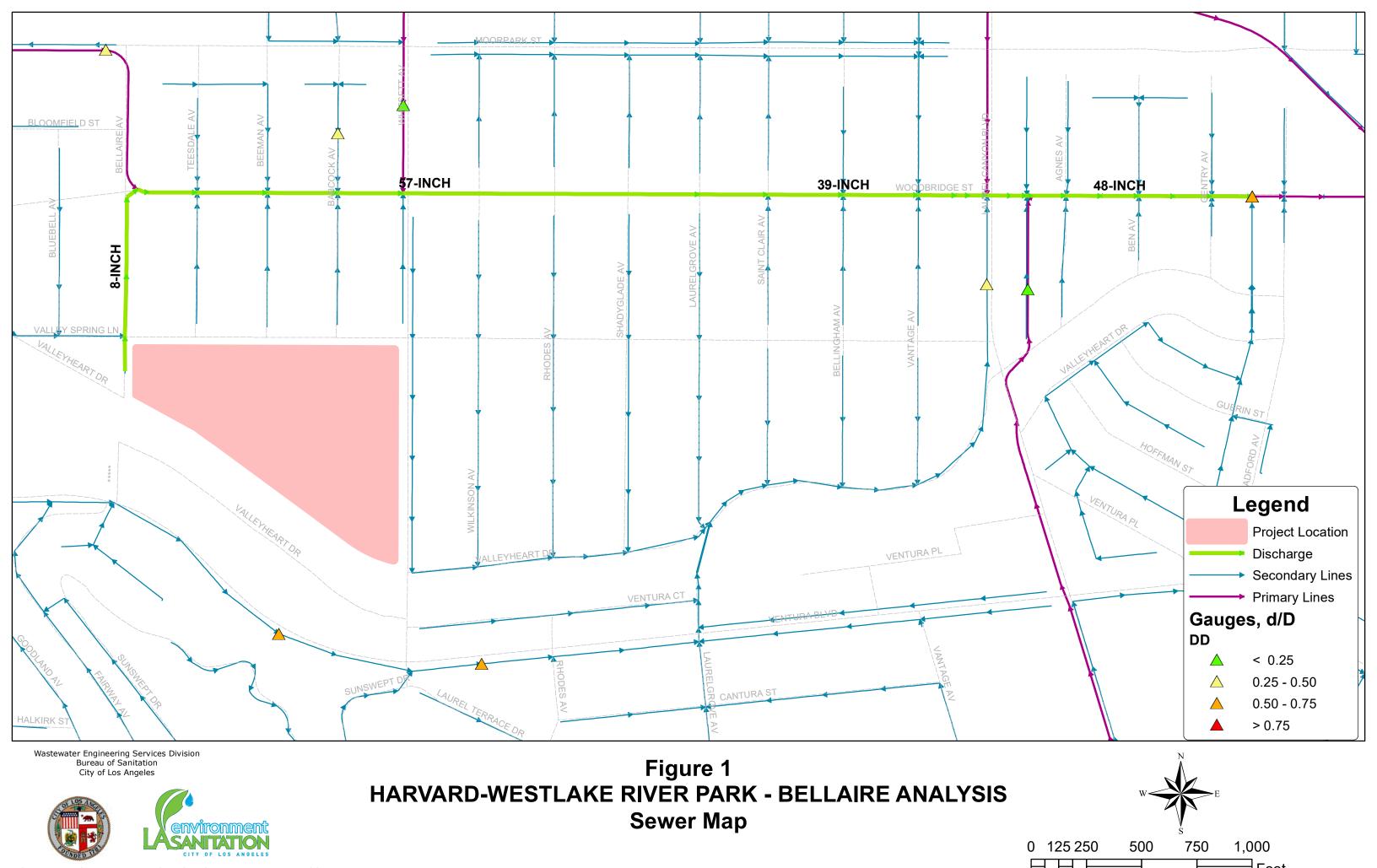
Lenise Marrero (Dec 9, 2020 15:53 PST)

for Ali Poosti, Division Manager Wastewater Engineering Services Division LA Sanitation and Environment

AP/CD: ra

Attachment: Figure 1 - Sewer Map Figure 2 - Sewer Map

c: Shahram Kharaghani, LASAN Michael Scaduto, LASAN Wing Tam, LASAN Christopher DeMonbrun, LASAN



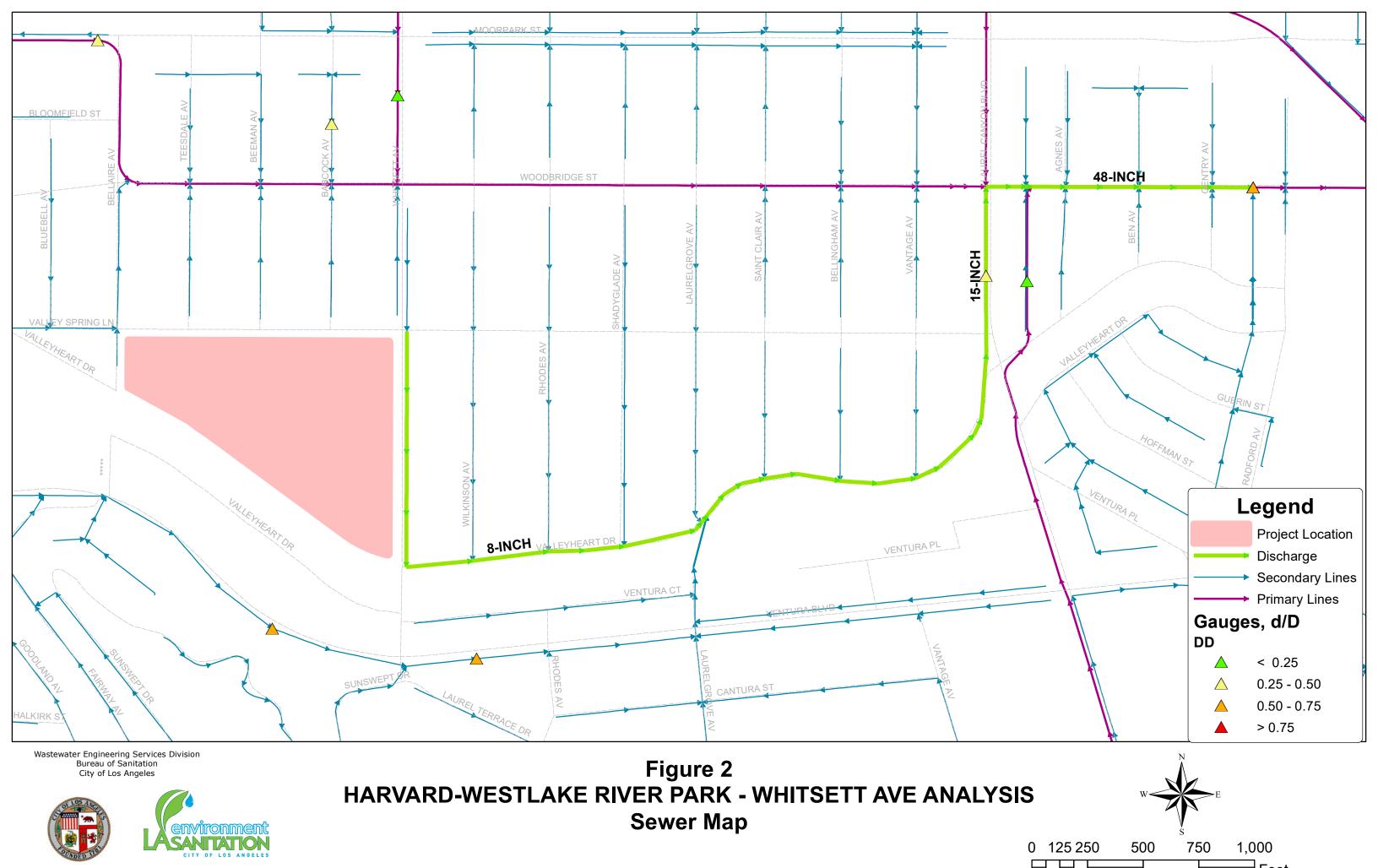


EXHIBIT 5



Board of Commissioners Mel Levine, President Cynthia McClain-Hill, Vice President Jill Banks Barad Christina E. Noonan Susana Reyes Susan A. Rodriguez, Secretary

Martin L. Adams, Interim General Manager and Chief Engineer

January 7, 2021

Ms. Charlotte Harrop, Project Engineer KPPF 700 S. Flower Street, Suite 2100 Los Angeles, CA 90017

Subject: Harvard-Westlake River Park

4141 Whitsett, Sherman Oaks

Dear Ms. Harrop:

This is in response to your submittal regarding electric service for the proposed project located at the above address.

Electric Service is available and will be provided in accordance with the Los Angeles Department of Water and Power's Rules Governing Water and Electric Service. The availability of electricity is dependent upon adequate generating capacity and adequate fuel supplies. The estimated power requirement for this proposed project is part of the total load growth forecast for the City of Los Angeles and has been taken into account in the planned growth of the City's power system.

If you have any questions regarding this matter, please contact me at (213) 367-4290.

Sincerely,

Ralph Jaramillo

Engineer of Customer Station Design

RJ:gr

C/enc: FileNet

EXHIBIT 6

The Gas Company PO Box 2300 Chatsworth, CA 91313





818-701-2539 Mdelatorre2@socalgas.com

December 1, 2020

4141 Whitsett LLC and Harvard-Westlake School 3700 Coldwater Canyon Ave Studio City, CA 91604

Attn: David Weil

Subject: Will Serve Letter for – Job I.D.# 44c - 2020-12-00002 Harvard-Westlake River Park-Gym, Studio City

Thank you for inquiring about the availability of natural gas service for your project. We are pleased to inform you that Southern California Gas Company (SoCalGas) has facilities in the area where the above named project is being proposed. The service would be in accordance with SoCalGas' policies and extension rules on file with the California Public Utilities Commission (Commission) at the time contractual arrangements are made.

This letter should not be considered a contractual commitment to serve the proposed project, and is only provided for informational purposes only. The availability of natural gas service is based upon natural gas supply conditions and is subject to changes in law or regulation. As a public utility, SoCalGas is under the jurisdiction of the Commission and certain federal regulatory agencies, and gas service will be provided in accordance with the rules and regulations in effect at the time service is provided. Natural gas service is also subject to environmental regulations, which could affect the construction of a main or service line extension (for example, if hazardous wastes were encountered in the process of installing the line). Applicable regulations will be determined once a contract with SoCalGas is executed.

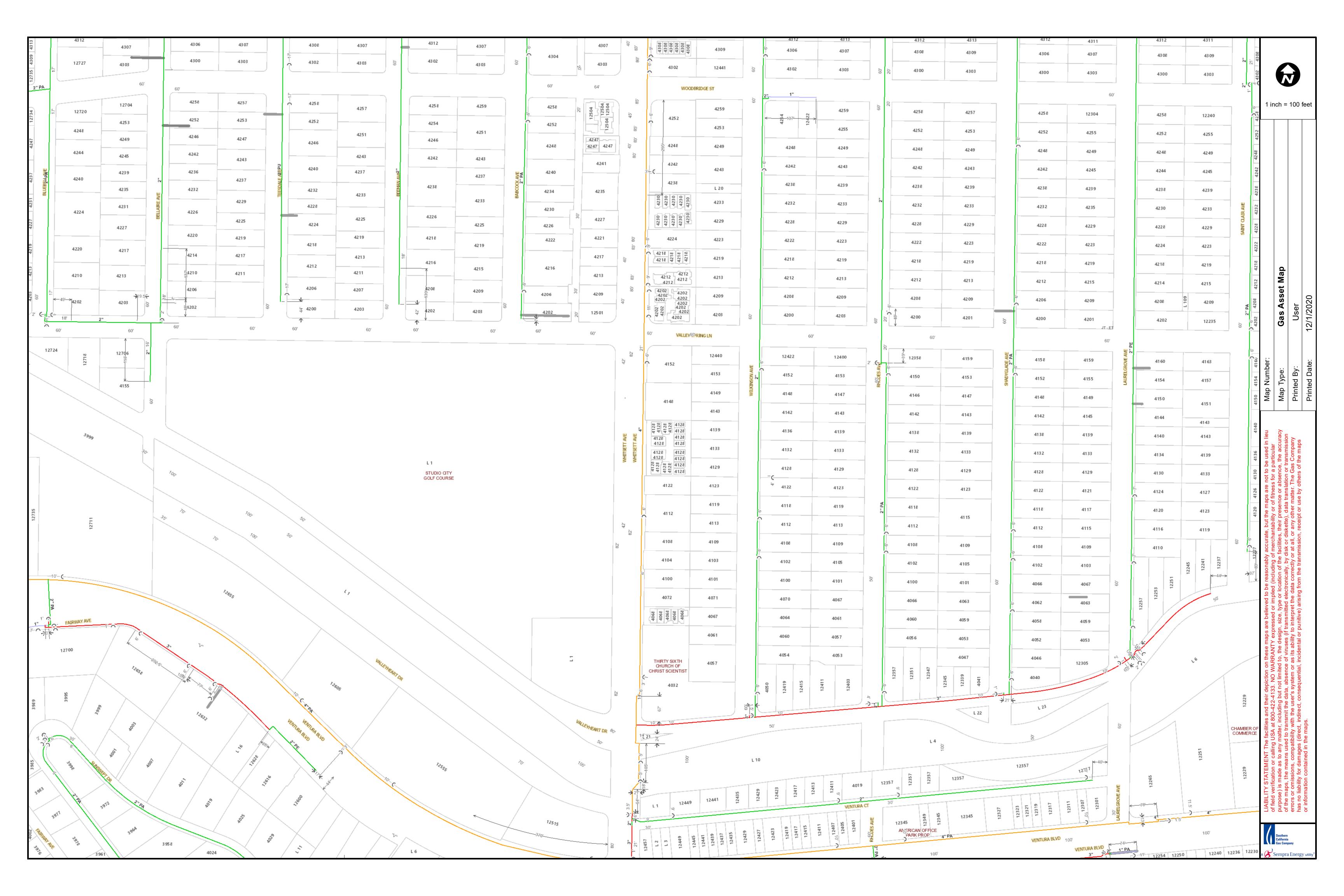
If you need assistance choosing the appropriate gas equipment for your project, or would like to discuss the most effective applications of energy efficiency techniques, please contact our area Service Center at 800-427-2200.

Thank you again for choosing clean, reliable, and safe natural gas, your best energy value.

Sincerely,

Maricruz De La Torre

Planning Associate







626 Wilshire Boulevard Suite 1100 Los Angeles, CA 90017 213.599.4300 phone 213.599.4301 fax

memorandum

date February 11, 2022

to

СС

from Jay Ziff, Mike Harden, Alan Sako, ESA

subject Harvard Westlake Operational Energy Memorandum

Purpose

The purpose of this memorandum is to provide an estimate of the energy demand for the Harvard-Westlake River Park Project (Project). The Project involves the redevelopment of the approximately 16.1-acre (701,428 square foot) Weddington Golf & Tennis site, and an adjacent approximately 1.1-acre (47,916 square foot) property leased from Los Angeles County, collectively comprising an approximately 17.2-acre (749,344 square foot) project site (Project Site), for use as an athletic and recreational facility for the Harvard-Westlake School and for shared public uses. The Project would require removal of the existing golf course and tennis facility in order to develop two athletic fields with bleacher seating, an 80,249-square-foot, two-story multi-purpose gymnasium with a maximum height of 30 feet, a 52-meter swimming pool with seating, eight tennis courts with seating, one level of below-grade parking and a surface parking lot. The Project would include ancillary field buildings, a pool house, and small security kiosk. The existing on-site putting green and clubhouse with café would be retained with an upgraded interior. The Project would require the installation of 32 exterior light poles above the conforming 30-foot height limit based on the Project Site's zoning, including the six relocated existing golf ballshaped light standards. The Project includes a 1 million-gallon stormwater capture and reuse system for water conservation and treatment purposes. The Project would also provide approximately 5.4 acres (235,224 square feet) of publicly-accessible open space and landscaped trails connecting to the adjacent Zev Yaroslavsky Greenway (Zev Greenway) and on-site landscaped areas, water features, and recreational facilities.

Limitations

The energy demand estimates provided in this analysis are based on Project information reasonably known and available as of the date of this memorandum and reasonably conservative assumptions. Future clarifications or refinements to Project information may result in the need to update this energy demand analysis.

Summary of Project Energy Demand

As shown in Table 1, the Project-related annual electricity consumption (including electricity usage associated with the supply and conveyance of water) was estimated to be 2,617.0 MWh. The existing uses-related annual electricity consumption (including electricity usage associated with the supply and conveyance of water) was estimated to be 805.8 MWh. Therefore, the Project-related net increase in annual electricity consumption was estimated to be 1,811.2 MWh.

As shown in Table 2, the Project-related annual natural gas consumption was estimated to be 1,673,192 cubic feet. The existing uses-related annual natural gas consumption (including natural gas usage associated with the supply and conveyance of water) was estimated to be 9,682 cubic feet. Therefore, the Project-related increase in annual natural gas consumption was estimated to be 1,663,510 cubic feet.

Assumptions

Project

- Energy usage factors adjusted in CalEEMod to account for 2019 Title 24 Standards.
- Water usage based on KPFF Utility Infrastructure Technical Report Table 1 Estimated Proposed Domestic Water Demand.
- Parking Lot lighting electricity usage factors added to land uses modeled as City Park to account for general lighting uses.
- Number of parking spaces with charging stations based on City Ordinance No. 186485 that requires at least 10% of parking spaces to have electric vehicle charging stations for nonresidential buildings.
- Pole lighting assumptions are based on illuminance calculations completed as part of the Project's Lighting Study and Technical Report.
- LED screen electricity use scaled up from energy required for 50 inch LED screen of 100 watts. This is a conservative assumption as the screen use LED technology, but will not display videos. Standard, static scoreboard visuals only will be displayed.
- Pole lighting and LED screens assumed to be operational Monday through Friday, 4 hours per day and 4 hours per day for 10 Saturday events annually.
- Solar panel assumptions based on client-given input of a nominal power generating capacity of 339,000 kWh per year.

Existing

- Energy usage factors adjusted to historical energy usage in CalEEMod since existing site uses were construction prior to 2005.
- Water usage based on CalEEMod defaults, except for the existing uses to remain listed in the KPFF Utility Infrastructure Technical Report Table 1 Estimated Proposed Domestic Water Demand.
- Parking Lot lighting electricity usage factors added to land uses modeled as Golf Course to account for general lighting uses.

Project land use and existing land use assumptions, calculation worksheets, and model outputs are included in Exhibit A of this memorandum.

TABLE 1
ESTIMATED PROJECT NET ELECTRICITY DEMAND

Land Use	Land Use Subtype	Amount	Electricity Demand (MWh/year)	Water Electricity Demand (MWh/year)	Total Electricity Demand (MWh/year)
Project					
Fields + Open Space + Putting Green	City Park	472,203 sf	161.8	43.0	204.7
Enclosed Parking with Elevator	Enclosed Parking with Elevator	503 spaces	1,173.8	23.6	1,197.4
Visitor Center + Security Kiosk	General Office Building	2,880 sf	2.3	0.03	2.3
Multi-Purpose Gym + Locker Rooms	Health Club	91,954 sf	998.6	119.6	1,118.1
Pool Deck and Bleachers	Other Non-Asphalt Surfaces	12,828 sf	-	-	-
Parking Lot	Parking Lot	29 spaces	13.0	-	13.0
Tennis Courts	Racquet Club	70,225 sf	49.0	-	49.0
Swimming Pool	Recreational Swimming Pool	12,672 sf	0.0	2.3	2.3
Sheds + Storage	Unrefrigerated Warehouse- No Rail	2,420 sf	97.4	0.3	97.7
Pole Lighting		32 light poles above the conforming 30-foot height limit	184.1	-	184.1
LED Screens		2 screens	1.9	-	1.9
EV Charging		54 spaces	85.4	-	85.4
Solar Panels	-		-339	-	-339
Total Project ^a			2,428.2	188.8	2,617.0
Existing					
Leased LA County Parcel	City Park	47,916 sf	-	-	-
Clubhouse + Tennis Shack	General Office Building	3,499 sf	12.2	0.6	12.8
Golf Course + Driving Range + Putting Green	Golf Course	572,086 sf	492.7	147.6	640.2
Parking Lot	Parking Lot	89 spaces	33.8	6.4	40.2
Tennis Courts	Racquet Club	132,195 sf	112.6	-	112.6
Total Existing ^a			651.3	154.5	805.8
Total Net Project ^a			1,776.9	34.3	1,811.2

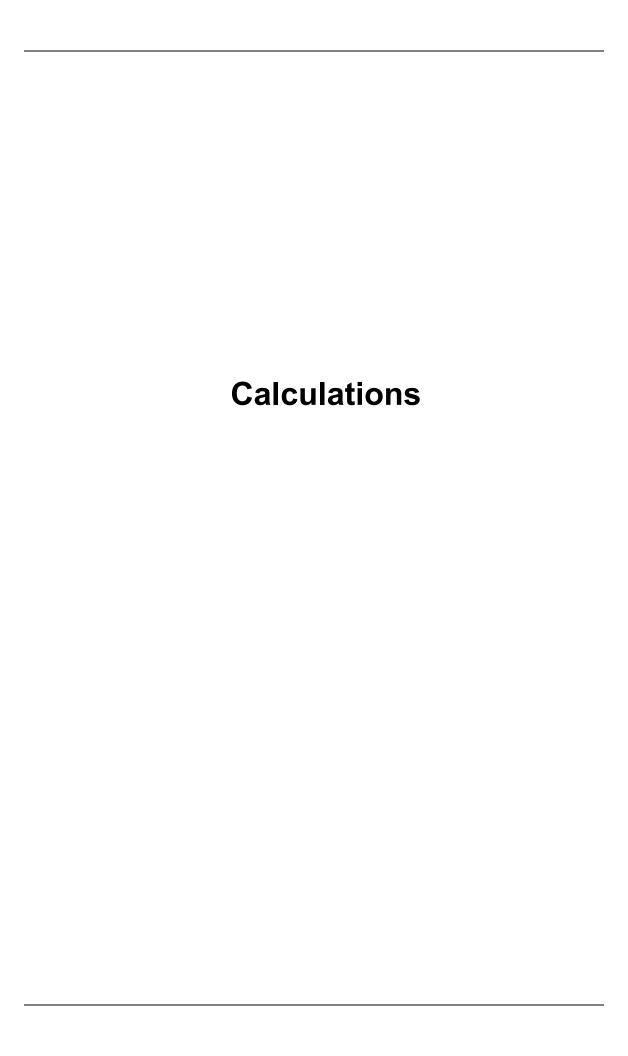
^a Totals may not add up exactly due to rounding of the calculated modeling values.

TABLE 2
ESTIMATED PROJECT NET NATURAL GAS DEMAND

			Total Natural Gas demand
Land Use	Land Use Subtype	Amount	(Cubic feet/yr)
Project			
Fields + Open Space + Putting Green	City Park	472,203 sf	-
Enclosed Parking with Elevator	Enclosed Parking with Elevator	503 spaces	-
Visitor Center + Security Kiosk	General Office Building	2,880 sf	1,793
Multi-Purpose Gym + Locker Rooms	Health Club	91,954 sf	1,595,643
Pool Deck and Bleachers	Other Non-Asphalt Surfaces	12,828 sf	-
Parking Lot	Parking Lot	29 spaces	-
Tennis Courts	Racquet Club	70,225 sf	-
Swimming Pool	Recreational Swimming Pool	12,672 sf	54,483
Sheds + Storage	Unrefrigerated Warehouse-No Rail	2,420 sf	21,122
Mobile Sources	n/a	n/a	151
Total Project ^a			1,673,192
Existing	au = 1		_
Leased LA County Parcel	City Park	47,916 sf	-
Clubhouse + Tennis Shack	General Office Building	3,499 sf	9,603
Golf Course + Driving Range + Putting Green	Golf Course	572,086 sf	-
Parking Lot	Parking Lot	89 spaces	-
Tennis Courts	Racquet Club	132,195 sf	-
Mobile Sources	n/a	n/a	78
Total Existing ^a			9,682
Total Net Project ^a			1,663,510

a Totals may not add up exactly due to rounding of the calculated modeling values.





Harvard Westlake Operational Energy Demand

Electricity	kWh/yr	GWh/yr
Fields and Open Space	161,760	0.162
Multi Purpose Gym and Locker Rooms	998,620	0.999
Sheds/Storage/Water Storage Tanks	97,359	0.097
Swimming Pool	0	-
Tennis Courts/Pool Deck/Bleacher Seats	49,022	0.049
Security Kiosk	2,250	0.002
Parking Structure	1,173,800	1.174
Parking Lot	12,959	0.013
Pole and LED Lighting	185,994	0.186
EV Charging (see worksheet)	85,440	0.085
Solar PV (estimated by Gensler)	(339,000)	(0.339)
Total Building Energy	2,495,770	2.496
Total	2,428,204	2.428
Total (including water, see below)	2,617,043	2.617

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Water	M	lgal/yr	MWh/yr
Fields and Onen Space		3.30	42.97
Fields and Open Space			
Multi Purpose Gym and Locker Rooms		9.18	119.56
Sheds/Storage/Water Storage Tanks		0.03	0.34
Swimming Pool		0.18	2.33
Tennis Courts/Pool Deck/Bleacher Seats		0.00	-
Security Kiosk		0.00	0.03
Parking Structure		1.81	23.61
Parking Lot		0.00	-
Pole and LED Lighting		0.00	-
•	Гotal	14.503	188.84
Electricity Intensity Factors	kW	h/Mgal	
Electricity Factor - Supply		9,727	
Electricity Factor - Treat		111	
Electricity Factor - Distribute		1,272	
Electricity Factor - Wastewater Treatmen	t	1,911	
Electricity from Water Demand	kWh/yr	GW	h/yr
1	Гotal	188,838.82	0.189

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Water Demand based on Project Water supply Assessment

Sewage Facilities Charge, Sewage Generation Factor for Residential and Commercial Categories, 2012.

Natural Gas	kBtu/yr	cubic foot (cf)
Fields and Open Space	0	-
Multi Purpose Gym and Locker Rooms	1,651,490	1,595,643
Sheds/Storage/Water Storage Tanks	21,861	21,122
Swimming Pool	56,390	54,483
Tennis Courts/Pool Deck/Bleacher Seats	0	-
Security Kiosk	1,856	1,793
Parking Structure	0	-
Parking Lot	0	-
Pole and LED Lighting	0	-
Mobile Sources	156	151
Total	1,731,754	1,673,192

 $Source: California\ Air\ Resources\ Board,\ Cal EEMod,\ Version\ 2016.3.2.$

 $Conversion\ factor\ of\ 1,035\ Btu\ per\ cubic\ foot\ based\ on\ United\ States\ Energy\ Information\ Administration\ data$

(see: USEIA, Natural Gas, Heat Content of Natural Gas Consumed, February 28, 2018,

https://www.eia.gov/dnav/ng/ng_cons_heat_a_EPG0_VGTH_btucf_a.htm. Accessed March 2020.)

Electricity	GWh/yr
LADWP 2025-2026 Total Energy Sales	26,748
Project Annual	2.617
Existing Annual	0.806
Net Project Annual	1.811215
Percent Net Project of LADWP	0.0068%

Source: Los Angeles Department of Water and Power, 2017 Long-Term Resource Plan, Appendix A, 2017.

Natural Gas	million cubic foot (cf)
SoCalGas 2025	854,830
Project Annual	1.673
Existing Annual	0.010
Net Project Annual	1.663510
Percent Net Project of SoCalGas	0.0002%

Source: California Gas and Electric Utilities, 2020 California Gas Report, p. 145,2020.

Harvard Westlake Operational Energy Analysis

Estimated Electricity demand from Electric Vehicle Supply Equipment (EVSE)

Land Use Type	Number of EVSE Charging Spaces	Percent of Spaces with EV Chargers	Average Charge (kWh/day) ^a	Days/Year	Electricity Demand (kWh/yr)	Electricity Demand (MWh/yr)
Total	532	10.0%	4.4	365	85,440	85.44

Notes:

- a. Estimated based on reference sources listed below.
- b. Project would install EV charing spaces for 10 percent of its parking capacity for immediate use
- c. Project would install pre-wiring for EV charging spaces for 30 percent of its parking capacity for future use (so 20% in addition to the immediate use).

Sources:

US Department of Energy. Alternative Fuels Data Center, 2016. Hybrid and Plug-In Electric Vehicle Emissions Data Sources and Assumptions.

Available at: https://www.afdc.energy.gov/vehicles/electric emissions sources.html.

US Department of Energy. Smith, Margaret, 2016. Level 1 Electric Vehicle Charging Stations at the Workplace.

Available at: https://www.afdc.energy.gov/uploads/publication/WPCC L1ChargingAtTheWorkplace 0716.pdf.

UCLA Luskin Center for Innovation. Williams, Brett and JR deShazo, 2013. Pricing Workplace Charging: Financial Viability and Fueling Costs.

Available at: http://luskin.ucla.edu/sites/default/files/Luskin-WPC-TRB-13-11-15d.pdf.

Harvard Westlake Pole Lighting and LED Screens

Pole Lighting

Based on Illuminance Calculations From Lighting Analysis

Circuit	Description	Load (kW)	Fixture Qty
Α	Track and Field	31.36	29
В	Tennis 1	6.96	12
C	Tennis 2	6.96	12
D	Tennis 3	6.96	12
E	Tennis 4	6.96	12
F	Athletic Fields	66.75	46
G	Pool	10.41	19
Н	Track	2.67	26
1	Ball Tracking Fixtures	3.45	6
		142.480	
Assumptions	Weekdays+Sundays/Year	313	
	Saturdays (when facilities will be used)	10	
	Lighting # hours per day	4	
	hours operating per year	1292	
	Energy usage per year	184084.2	kwh/year

LED Screens

LED Screen	Dimension	s (ft)	Diagonal	Power Usa	ge Watts
Field A	25	18	30.8	739.2	
Field B	25	18	30.8	739.2	
			Total	1478.4	

Assumptions	Weekdays+Sundays/Year	313
	Saturdays (when facilities will be used)	10
	Screens # hours per day	4
	hours operating per year	1292

Energy usage per year 1910093 wh/year 1910 kwh/year

LED scaled from 50 inches diameter screen using 100 W http://energyusecalculator.com/electricity_lcdleddisplay.htm Assumes LED no used on sundays since no events

Harvard Westlake Existing Energy Demand

Electricity	kWh/yr	GWh/yr
Tennis House	12,177	0.012
Tennis Courts	112,640	0.113
Golf-Related Land Uses	492,678	0.493
Parking lot	33,792	0.034
Parcel	0	-
Total Building Energy	651,287	0.651
Total	651,287	0.651
Total (including water, see below)	805,828	0.806

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Water	ı	Mgal/yr	
Tannia Havea		0.05	0.62
Tennis House		0.05	0.62
Tennis Courts		0.00	-
Golf-Related Land Uses		11.33	147.56
Parking lot		0.49	6.36
Parcel		0.00	-
	Total	11.869	154.54
Electricity Intensity Factors	k۱	Wh/Mgal	
Electricity Factor - Supply		9,727	
Electricity Factor - Treat		111	
Electricity Factor - Distribute		1,272	
Electricity Factor - Wastewater Treatn	nent	1,911	
Electricity from Water Demand	kWh/yr	GWh/yr	
	Total	154,541.20	0.155

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Water Demand based on Project Water supply Assessment

Sewage Facilities Charge, Sewage Generation Factor for Residential and Commercial Categories, 2012.

Natural Gas		kBtu/yr	cubic foot (cf)
Tennis House		9,940	9,603
Tennis Courts		0	-
Golf-Related Land Uses		0	-
Parking lot		0	-
Parcel		0	-
Mobile Sources		81	78
	Total	10,021	9,682

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Conversion factor of 1,035 Btu per cubic foot based on United States Energy Information Administration data

(see: USEIA, Natural Gas, Heat Content of Natural Gas Consumed, February 28, 2018,

https://www.eia.gov/dnav/ng/ng_cons_heat_a_EPG0_VGTH_btucf_a.htm. Accessed March 2020.)

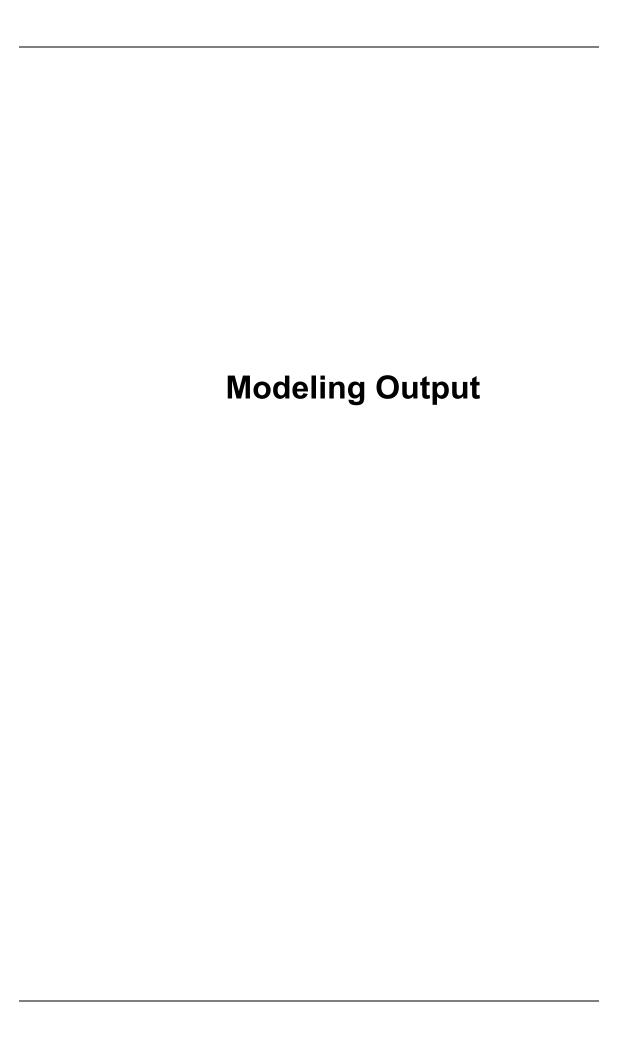
GWh/yr
23,537 0.806

Source: Los Angeles Department of Water and Power, 2017 Long-Term Resource Plan, Appendix A, 2017.

Natural Gas	million cubic foot (cf)
SoCalGas 2025	854,830
Existing Annual	0.010

Source: California Gas and Electric Utilities, 2020 California Gas

Report, p. 145,2020.



CalEEMod Version: CalEEMod.2016.3.2 Page 1 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

Harvard Westlake - Existing South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size Metric		Lot Acreage	Floor Surface Area	Population
General Office Building	0.80	1000sqft	0.05	799.00	0
Other Non-Asphalt Surfaces	128.00	1000sqft	2.94 128,000.00		0
Parking Lot	89.00	Space	0.88	38,400.00	0
City Park	City Park 1.10		1.10	47,916.00	0
Golf Course	11.78	Acre	11.78	559,860.95	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2020
Utility Company	Los Angeles Department	of Water & Power			
CO2 Intensity (lb/MWhr)	787.02	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

CalEEMod Version: CalEEMod.2016.3.2 Page 2 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

Project Characteristics - CO2 intensity factor linearly adjusted to account for SB100 RPS by year 2020.

Land Use - Existing uses to remain not included. See operational assumptions.

Construction Phase -

Vehicle Trips - mobile emissions calculated outside of CalEEMod.

Energy Use - Added parking lot lighting to land uses account for general lighting. See operational assumptions. Historical data box checked to account for existing uses built before 2005.

Water And Wastewater - Existing use water demand from DEIR Section P. Utilities and Service Systems - Wastewater, Water Supply and Infrastructure, Solid Waste Regulations.

Solid Waste - Solid waste values for existing uses from DEIR Section P. Utilities and Service Systems - Wastewater, Water Supply and Infrastructure, Solid Waste Regulations

Waste Mitigation - City of Los Angeles, Bureau of Sanitation, Zero Waste Progress Report, (2013). Citywide 76% MSW diversion.

Page 3 of 23

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

Date: 12/10/2020 5:00 PM

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	0.00	0.88
tblEnergyUse	LightingElect	0.00	0.88
tblLandUse	LandUseSquareFeet	800.00	799.00
tblLandUse	LandUseSquareFeet	35,600.00	38,400.00
tblLandUse	LandUseSquareFeet	513,136.80	559,860.95
tblLandUse	LotAcreage	0.02	0.05
tblLandUse	LotAcreage	0.80	0.88
tblProjectCharacteristics	CO2IntensityFactor	1227.89	787.02
tblSolidWaste	SolidWasteGenerationRate	0.09	120.00
tblSolidWaste	SolidWasteGenerationRate	0.74	0.00
tblSolidWaste	SolidWasteGenerationRate	10.96	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	5.82	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	5.88	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	5.04	0.00
tblWater	IndoorWaterUseRate	142,187.00	47,304.00
tblWater	OutdoorWaterUseRate	1,310,629.48	0.00
tblWater	OutdoorWaterUseRate	87,146.87	0.00
tblWater	OutdoorWaterUseRate	14,035,650.30	11,332,488.00
tblWater	OutdoorWaterUseRate	0.00	488,808.00

CalEEMod Version: CalEEMod.2016.3.2 Page 4 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr									МТ	√yr					
2019	0.0359	0.3584	0.2269	4.0000e- 004	1.6500e- 003	0.0180	0.0196	4.4000e- 004	0.0167	0.0172	0.0000	36.1553	36.1553	9.6800e- 003	0.0000	36.3973
Maximum	0.0359	0.3584	0.2269	4.0000e- 004	1.6500e- 003	0.0180	0.0196	4.4000e- 004	0.0167	0.0172	0.0000	36.1553	36.1553	9.6800e- 003	0.0000	36.3973

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							tons/yr MT/yr								
	0.0359	0.3584	0.2269	4.0000e- 004	1.6500e- 003	0.0180	0.0196	4.4000e- 004	0.0167	0.0172	0.0000	36.1552	36.1552	9.6800e- 003	0.0000	36.3972
Maximum	0.0359	0.3584	0.2269	4.0000e- 004	1.6500e- 003	0.0180	0.0196	4.4000e- 004	0.0167	0.0172	0.0000	36.1552	36.1552	9.6800e- 003	0.0000	36.3972

Page 5 of 23

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

Date: 12/10/2020 5:00 PM

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	0.3943	0.3943
		Highest	0.3943	0.3943

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003	
Energy	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000	 	4.0000e- 005	4.0000e- 005	1 1 1 1	4.0000e- 005	4.0000e- 005	0.0000	233.0307	233.0307	8.5800e- 003	1.7800e- 003	233.7763	
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Waste	6; 6; 6; 6; 8;	,	1 1		 	0.0000	0.0000	1 1 1 1	0.0000	0.0000	24.3589	0.0000	24.3589	1.4396	0.0000	60.3482	
Water		1 1 1	1 1			0.0000	0.0000	1 1 1 1	0.0000	0.0000	0.0150	47.1045	47.1195	3.2800e- 003	4.0000e- 004	47.3193	
Total	0.0224	5.2000e- 004	3.3700e- 003	0.0000	0.0000	5.0000e- 005	5.0000e- 005	0.0000	5.0000e- 005	5.0000e- 005	24.3739	280.1410	304.5149	1.4515	2.1800e- 003	341.4499	

CalEEMod Version: CalEEMod.2016.3.2 Page 6 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003	
Energy	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	233.0307	233.0307	8.5800e- 003	1.7800e- 003	233.7763	
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Waste						0.0000	0.0000		0.0000	0.0000	5.8461	0.0000	5.8461	0.3455	0.0000	14.4836	
Water						0.0000	0.0000		0.0000	0.0000	0.0150	47.1045	47.1195	3.2800e- 003	4.0000e- 004	47.3193	
Total	0.0224	5.2000e- 004	3.3700e- 003	0.0000	0.0000	5.0000e- 005	5.0000e- 005	0.0000	5.0000e- 005	5.0000e- 005	5.8612	280.1410	286.0021	0.3574	2.1800e- 003	295.5853	

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.95	0.00	6.08	75.38	0.00	13.43

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

CalEEMod Version: CalEEMod.2016.3.2 Page 7 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor	Hauling
	Count	Number	Number	Number	Length	Length	Length	Class	Vehicle Class	Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

CalEEMod Version: CalEEMod.2016.3.2 Page 8 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

3.2 Demolition - 2019
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0351	0.3578	0.2206	3.9000e- 004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e- 003	0.0000	34.8672
Total	0.0351	0.3578	0.2206	3.9000e- 004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e- 003	0.0000	34.8672

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	7.2000e- 004	5.8000e- 004	6.2500e- 003	2.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.5289	1.5289	5.0000e- 005	0.0000	1.5301
Total	7.2000e- 004	5.8000e- 004	6.2500e- 003	2.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.5289	1.5289	5.0000e- 005	0.0000	1.5301

CalEEMod Version: CalEEMod.2016.3.2 Page 9 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

3.2 Demolition - 2019

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0351	0.3578	0.2206	3.9000e- 004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e- 003	0.0000	34.8671
Total	0.0351	0.3578	0.2206	3.9000e- 004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e- 003	0.0000	34.8671

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	5.8000e- 004	6.2500e- 003	2.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.5289	1.5289	5.0000e- 005	0.0000	1.5301
Total	7.2000e- 004	5.8000e- 004	6.2500e- 003	2.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.5289	1.5289	5.0000e- 005	0.0000	1.5301

4.0 Operational Detail - Mobile

CalEEMod Version: CalEEMod.2016.3.2 Page 10 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Golf Course	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
City Park	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
General Office Building	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Golf Course	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Other Non-Asphalt Surfaces	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956
Parking Lot	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	232.5003	232.5003	8.5700e- 003	1.7700e- 003	233.2427
Electricity Unmitigated						0.0000	0.0000	 	0.0000	0.0000	0.0000	232.5003	232.5003	8.5700e- 003	1.7700e- 003	233.2427
NaturalGas Mitigated	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336
NaturalGas Unmitigated	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005	,	4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336

CalEEMod Version: CalEEMod.2016.3.2 Page 13 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
City Park	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
General Office Building	9939.56	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000	 	4.0000e- 005	4.0000e- 005	1 1 1 1	4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336
Golf Course	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	1 1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336

5.2 Energy by Land Use - NaturalGas Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
City Park	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
General Office Building	9939.56	5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336
Golf Course	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
Other Non- 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
Parking Lot	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
Total		5.0000e- 005	4.9000e- 004	4.1000e- 004	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.5304	0.5304	1.0000e- 005	1.0000e- 005	0.5336

5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	12176.8	4.3469	1.6000e- 004	3.0000e- 005	4.3608
Golf Course	492678	175.8792	6.4800e- 003	1.3400e- 003	176.4407
Other Non- Asphalt Surfaces	112640	40.2109	1.4800e- 003	3.1000e- 004	40.3393
Parking Lot	33792	12.0633	4.4000e- 004	9.0000e- 005	12.1018
Total		232.5003	8.5600e- 003	1.7700e- 003	233.2427

CalEEMod Version: CalEEMod.2016.3.2 Page 16 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	12176.8	4.3469	1.6000e- 004	3.0000e- 005	4.3608
Golf Course	492678	175.8792	6.4800e- 003	1.3400e- 003	176.4407
Other Non- Asphalt Surfaces	112640	40.2109	1.4800e- 003	3.1000e- 004	40.3393
Parking Lot	33792	12.0633	4.4000e- 004	9.0000e- 005	12.1018
Total		232.5003	8.5600e- 003	1.7700e- 003	233.2427

6.0 Area Detail

6.1 Mitigation Measures Area

CalEEMod Version: CalEEMod.2016.3.2 Page 17 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003
Unmitigated	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory		tons/yr							MT	-/yr						
0	2.6800e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e- 004	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003
Total	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003

CalEEMod Version: CalEEMod.2016.3.2 Page 18 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

6.2 Area by SubCategory Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	2.6800e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0194					0.0000	0.0000	1 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e- 004	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005	1 1 1 1 1	1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003
Total	0.0223	3.0000e- 005	2.9600e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	5.7200e- 003	5.7200e- 003	2.0000e- 005	0.0000	6.1100e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category		MT	/yr	
Willigatou	47.1195	3.2800e- 003	4.0000e- 004	47.3193
- Crimingatou	47.1195	3.2800e- 003	4.0000e- 004	47.3193

7.2 Water by Land Use Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
City Park	0/0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.047304 / 0	0.2349	1.5500e- 003	4.0000e- 005	0.2850
Golf Course	0 / 11.3325	44.9460	1.6600e- 003	3.4000e- 004	45.0895
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0.488808	1.9387	7.0000e- 005	1.0000e- 005	1.9449
Total		47.1195	3.2800e- 003	3.9000e- 004	47.3193

CalEEMod Version: CalEEMod.2016.3.2 Page 20 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

7.2 Water by Land Use Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
City Park	0/0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.047304 / 0	0.2349	1.5500e- 003	4.0000e- 005	0.2850
Golf Course	0 / 11.3325	44.9460	1.6600e- 003	3.4000e- 004	45.0895
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0.488808	1.9387	7.0000e- 005	1.0000e- 005	1.9449
Total		47.1195	3.2800e- 003	3.9000e- 004	47.3193

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
		МТ	√yr	
gatea	5.8461	0.3455	0.0000	14.4836
Jgatea	24.3589	1.4396	0.0000	60.3482

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	√yr	
City Park	120	24.3589	1.4396	0.0000	60.3482
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		24.3589	1.4396	0.0000	60.3482

Date: 12/10/2020 5:00 PM

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	-/yr	
City Park	28.8	5.8461	0.3455	0.0000	14.4836
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.8461	0.3455	0.0000	14.4836

9.0 Operational Offroad

Equipment Type Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
-----------------------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

CalEEMod Version: CalEEMod.2016.3.2 Page 23 of 23 Date: 12/10/2020 5:00 PM

Harvard Westlake - Existing - South Coast AQMD Air District, Annual

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

CalEEMod Version: CalEEMod.2016.3.2 Page 1 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

Harvard Westlake - Operations South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.18	1000sqft	0.05	180.00	0
Unrefrigerated Warehouse-No Rail	25.42	1000sqft	0.30	25,420.00	0
Enclosed Parking Structure	503.00	Space	1.00	223,580.00	0
Other Non-Asphalt Surfaces	140.06	1000sqft	3.16	140,063.60	0
Parking Lot	29.00	Space	0.85	37,026.00	0
City Park	10.61	Acre	10.61	462,171.60	0
Health Club	91.95	1000sqft	0.68	91,954.00	0
Recreational Swimming Pool	12.67	1000sqft	0.10	12,672.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2025
Utility Company	Los Angeles Depa	artment of Water & Power			
CO2 Intensity (lb/MWhr)	626.48	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Date: 2/3/2021 1:10 PM

Project Characteristics - CO2 intensity factor linearly adjusted to account for SB100 RPS by year 2025.

Land Use - Existing uses to remain not included. See operational assumptions.

Construction Phase -

Vehicle Trips - operational mobile emissions calculated outside of CalEEMod.

Area Coating - see operational assumptions

Energy Use - accounts for 2019 Title 24 standards. Health Club Non-Title 24 Natural Gas usage to account for pool heating and parking lot lighting assumed for certain uses to account for general lighting. see operational assumptions.

Water And Wastewater - Operational water demand from DEIR Section P. Utilities and Service Systems - Wastewater, Water Supply and Infrastructure, Solid Waste Regulations.

Solid Waste - Solid waste values for Project uses from DEIR Section P. Utilities and Service Systems - Wastewater, Water Supply and Infrastructure, Solid Waste Regulations.

Waste Mitigation - City of Los Angeles, Bureau of Sanitation, Zero Waste Progress Report, (2013). Citywide 76% MSW diversion.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	58777	128809
tblAreaCoating	Area_Nonresidential_Interior	176331	386426
tblAreaCoating	Area_Parking	24040	15636
tblEnergyUse	LightingElect	0.00	0.35
tblEnergyUse	LightingElect	0.00	0.35
tblEnergyUse	NT24NG	0.00	4.45
tblEnergyUse	T24E	3.92	3.50
tblEnergyUse	T24E	4.60	4.11
tblEnergyUse	T24E	2.25	2.01
tblEnergyUse	T24E	0.65	0.58
tblEnergyUse	T24NG	10.02	9.92
tblEnergyUse	T24NG	13.65	13.51
tblEnergyUse	T24NG	0.84	0.83
tblLandUse	LandUseSquareFeet	201,200.00	223,580.00
tblLandUse	LandUseSquareFeet	140,060.00	140,063.60

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

Date: 2/3/2021 1:10 PM

Page 3 of 26

tblLandUse	LandUseSquareFeet	11,600.00	37,026.00
tblLandUse	LandUseSquareFeet	91,950.00	91,954.00
tblLandUse	LandUseSquareFeet	12,670.00	12,672.00
tblLandUse	LotAcreage	0.00	0.05
tblLandUse	LotAcreage	0.58	0.30
tblLandUse	LotAcreage	4.53	1.00
tblLandUse	LotAcreage	3.22	3.16
tblLandUse	LotAcreage	0.26	0.85
tblLandUse	LotAcreage	2.11	0.68
tblLandUse	LotAcreage	0.29	0.10
tblProjectCharacteristics	CO2IntensityFactor	1227.89	626.48
tblSolidWaste	SolidWasteGenerationRate	0.91	0.00
tblSolidWaste	SolidWasteGenerationRate	0.17	0.00
tblSolidWaste	SolidWasteGenerationRate	524.12	160.00
tblSolidWaste	SolidWasteGenerationRate	72.22	0.00
tblSolidWaste	SolidWasteGenerationRate	23.89	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.89	0.00

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

Date: 2/3/2021 1:10 PM

Page 4 of 26

tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	33.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	31,992.07	2,102.00
tblWater	IndoorWaterUseRate	5,438,212.09	9,182,232.00
tblWater	IndoorWaterUseRate	749,343.63	0.00
tblWater	IndoorWaterUseRate	5,878,375.00	26,280.00
tblWater	OutdoorWaterUseRate	12,641,617.12	3,300,000.00
tblWater	OutdoorWaterUseRate	0.00	1,813,320.00
tblWater	OutdoorWaterUseRate	19,608.05	0.00
tblWater	OutdoorWaterUseRate	3,333,097.74	0.00
tblWater	OutdoorWaterUseRate	459,275.13	178,704.00

2.0 Emissions Summary

CalEEMod Version: CalEEMod.2016.3.2 Page 5 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

2.1 Overall Construction <u>Unmitigated Construction</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr											MT	√yr			
2024	0.0230	0.2091	0.2012	4.0000e- 004	1.6500e- 003	9.6100e- 003	0.0113	4.4000e- 004	8.9300e- 003	9.3700e- 003	0.0000	35.2828	35.2828	9.5400e- 003	0.0000	35.5213
Maximum	0.0230	0.2091	0.2012	4.0000e- 004	1.6500e- 003	9.6100e- 003	0.0113	4.4000e- 004	8.9300e- 003	9.3700e- 003	0.0000	35.2828	35.2828	9.5400e- 003	0.0000	35.5213

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											МТ	Γ/yr			
2024	0.0230	0.2091	0.2012	4.0000e- 004	1.6500e- 003	9.6100e- 003	0.0113	4.4000e- 004	8.9300e- 003	9.3700e- 003	0.0000	35.2828	35.2828	9.5400e- 003	0.0000	35.5213
Maximum	0.0230	0.2091	0.2012	4.0000e- 004	1.6500e- 003	9.6100e- 003	0.0113	4.4000e- 004	8.9300e- 003	9.3700e- 003	0.0000	35.2828	35.2828	9.5400e- 003	0.0000	35.5213

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Page 6 of 26

Date: 2/3/2021 1:10 PM

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.2156	0.2156
		Highest	0.2156	0.2156

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	-/yr		
Area	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215
Energy	9.3400e- 003	0.0849	0.0713	5.1000e- 004		6.4500e- 003	6.4500e- 003		6.4500e- 003	6.4500e- 003	0.0000	801.6179	801.6179	0.0346	8.4900e- 003	805.0119
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	,, ,, ,,			 		0.0000	0.0000		0.0000	0.0000	32.4786	0.0000	32.4786	1.9194	0.0000	80.4642
Water						0.0000	0.0000		0.0000	0.0000	2.9221	50.7879	53.7100	0.3025	7.5700e- 003	63.5288
Total	0.5884	0.0850	0.0817	5.1000e- 004	0.0000	6.4900e- 003	6.4900e- 003	0.0000	6.4900e- 003	6.4900e- 003	35.4007	852.4260	887.8266	2.2566	0.0161	949.0264

CalEEMod Version: CalEEMod.2016.3.2 Page 7 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
Area	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215
Energy	9.3400e- 003	0.0849	0.0713	5.1000e- 004		6.4500e- 003	6.4500e- 003		6.4500e- 003	6.4500e- 003	0.0000	801.6179	801.6179	0.0346	8.4900e- 003	805.0119
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste			 			0.0000	0.0000		0.0000	0.0000	7.7949	0.0000	7.7949	0.4607	0.0000	19.3114
Water						0.0000	0.0000		0.0000	0.0000	2.9221	50.7879	53.7100	0.3025	7.5700e- 003	63.5288
Total	0.5884	0.0850	0.0817	5.1000e- 004	0.0000	6.4900e- 003	6.4900e- 003	0.0000	6.4900e- 003	6.4900e- 003	10.7170	852.4260	863.1429	0.7978	0.0161	887.8735

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.73	0.00	2.78	64.65	0.00	6.44

3.0 Construction Detail

Construction Phase

Phase Numbe	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/26/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

CalEEMod Version: CalEEMod.2016.3.2 Page 8 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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		Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

CalEEMod Version: CalEEMod.2016.3.2 Page 9 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

3.2 Demolition - 2024

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0224	0.2088	0.1971	3.9000e- 004		9.6000e- 003	9.6000e- 003		8.9200e- 003	8.9200e- 003	0.0000	33.9961	33.9961	9.5100e- 003	0.0000	34.2338
Total	0.0224	0.2088	0.1971	3.9000e- 004		9.6000e- 003	9.6000e- 003		8.9200e- 003	8.9200e- 003	0.0000	33.9961	33.9961	9.5100e- 003	0.0000	34.2338

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
· · · · · · · · · · · · · · · · · · ·	5.2000e- 004	3.4000e- 004	4.1500e- 003	1.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.2868	1.2868	3.0000e- 005	0.0000	1.2875
Total	5.2000e- 004	3.4000e- 004	4.1500e- 003	1.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.2868	1.2868	3.0000e- 005	0.0000	1.2875

CalEEMod Version: CalEEMod.2016.3.2 Page 10 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

3.2 Demolition - 2024 <u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
	0.0224	0.2088	0.1971	3.9000e- 004		9.6000e- 003	9.6000e- 003		8.9200e- 003	8.9200e- 003	0.0000	33.9960	33.9960	9.5100e- 003	0.0000	34.2338
Total	0.0224	0.2088	0.1971	3.9000e- 004		9.6000e- 003	9.6000e- 003		8.9200e- 003	8.9200e- 003	0.0000	33.9960	33.9960	9.5100e- 003	0.0000	34.2338

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e- 004	3.4000e- 004	4.1500e- 003	1.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.2868	1.2868	3.0000e- 005	0.0000	1.2875
Total	5.2000e- 004	3.4000e- 004	4.1500e- 003	1.0000e- 005	1.6500e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.2868	1.2868	3.0000e- 005	0.0000	1.2875

4.0 Operational Detail - Mobile

CalEEMod Version: CalEEMod.2016.3.2 Page 11 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ite	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
City Park	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 Structure	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
General Office Building	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
Health Club	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 Non-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
Parking Lot	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
Recreational Swimming Pool	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
Unrefrigerated Warehouse-No Rail	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	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	709.2131	709.2131	0.0328	6.7900e- 003	712.0579
Electricity Unmitigated						0.0000	0.0000	,	0.0000	0.0000	0.0000	709.2131	709.2131	0.0328	6.7900e- 003	712.0579
NaturalGas Mitigated	9.3400e- 003	0.0849	0.0713	5.1000e- 004		6.4500e- 003	6.4500e- 003	,	6.4500e- 003	6.4500e- 003	0.0000	92.4048	92.4048	1.7700e- 003	1.6900e- 003	92.9540
NaturalGas Unmitigated	9.3400e- 003	0.0849	0.0713	5.1000e- 004		6.4500e- 003	6.4500e- 003	, , ,	6.4500e- 003	6.4500e- 003	0.0000	92.4048	92.4048	1.7700e- 003	1.6900e- 003	92.9540

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/уг		
City Park	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
Enclosed Parking Structure	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
General Office Building	1855.8	1.0000e- 005	9.0000e- 005	8.0000e- 005	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	0.0990	0.0990	0.0000	0.0000	0.0996
Health Club	1.65149e +006	8.9100e- 003	0.0810	0.0680	4.9000e- 004		6.1500e- 003	6.1500e- 003		6.1500e- 003	6.1500e- 003	0.0000	88.1300	88.1300	1.6900e- 003	1.6200e- 003	88.6537
Other Non- 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
Parking Lot	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
Recreational Swimming Pool	56390.4	3.0000e- 004	2.7600e- 003	2.3200e- 003	2.0000e- 005		2.1000e- 004	2.1000e- 004		2.1000e- 004	2.1000e- 004	0.0000	3.0092	3.0092	6.0000e- 005	6.0000e- 005	3.0271
Unrefrigerated Warehouse-No Rail	21861.2	1.2000e- 004	1.0700e- 003	9.0000e- 004	1.0000e- 005		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005	0.0000	1.1666	1.1666	2.0000e- 005	2.0000e- 005	1.1735
Total		9.3400e- 003	0.0849	0.0713	5.2000e- 004		6.4500e- 003	6.4500e- 003		6.4500e- 003	6.4500e- 003	0.0000	92.4048	92.4048	1.7700e- 003	1.7000e- 003	92.9540

5.2 Energy by Land Use - NaturalGas Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
City Park	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
Enclosed Parking Structure	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
General Office Building	1855.8	1.0000e- 005	9.0000e- 005	8.0000e- 005	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	0.0990	0.0990	0.0000	0.0000	0.0996
Health Club	1.65149e +006	8.9100e- 003	0.0810	0.0680	4.9000e- 004		6.1500e- 003	6.1500e- 003		6.1500e- 003	6.1500e- 003	0.0000	88.1300	88.1300	1.6900e- 003	1.6200e- 003	88.6537
Other Non- 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
Parking Lot	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
Recreational Swimming Pool	56390.4	3.0000e- 004	2.7600e- 003	2.3200e- 003	2.0000e- 005		2.1000e- 004	2.1000e- 004		2.1000e- 004	2.1000e- 004	0.0000	3.0092	3.0092	6.0000e- 005	6.0000e- 005	3.0271
Unrefrigerated Warehouse-No Rail	21861.2	1.2000e- 004	1.0700e- 003	9.0000e- 004	1.0000e- 005		8.0000e- 005	8.0000e- 005		8.0000e- 005	8.0000e- 005	0.0000	1.1666	1.1666	2.0000e- 005	2.0000e- 005	1.1735
Total		9.3400e- 003	0.0849	0.0713	5.2000e- 004		6.4500e- 003	6.4500e- 003		6.4500e- 003	6.4500e- 003	0.0000	92.4048	92.4048	1.7700e- 003	1.7000e- 003	92.9540

5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
City Park	161760	45.9668	2.1300e- 003	4.4000e- 004	46.1512
Enclosed Parking Structure	.000	333.5533	0.0154	3.1900e- 003	334.8913
General Office Building	2250	0.6394	3.0000e- 005	1.0000e- 005	0.6419
Health Club	998620	283.7745	0.0131	2.7200e- 003	284.9128
Other Non- Asphalt Surfaces	49022.3	13.9305	6.4000e- 004	1.3000e- 004	13.9864
Parking Lot	12959.1	3.6825	1.7000e- 004	4.0000e- 005	3.6973
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	97358.6	27.6661	1.2800e- 003	2.6000e- 004	27.7770
Total		709.2131	0.0328	6.7900e- 003	712.0579

CalEEMod Version: CalEEMod.2016.3.2 Page 17 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	-/yr	
City Park	161760	45.9668	2.1300e- 003	4.4000e- 004	46.1512
Enclosed Parking Structure	1.1738e +006	333.5533	0.0154	3.1900e- 003	334.8913
General Office Building	2250	0.6394	3.0000e- 005	1.0000e- 005	0.6419
Health Club	998620	283.7745	0.0131	2.7200e- 003	284.9128
Other Non- Asphalt Surfaces	49022.3	13.9305	6.4000e- 004	1.3000e- 004	13.9864
Parking Lot	12959.1	3.6825	1.7000e- 004	4.0000e- 005	3.6973
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	97358.6	27.6661	1.2800e- 003	2.6000e- 004	27.7770
Total		709.2131	0.0328	6.7900e- 003	712.0579

6.0 Area Detail

6.1 Mitigation Measures Area

CalEEMod Version: CalEEMod.2016.3.2 Page 18 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215
Unmitigated	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.1230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4550					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5000e- 004	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215
Total	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215

CalEEMod Version: CalEEMod.2016.3.2 Page 19 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

6.2 Area by SubCategory Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.1230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4550	 	1 			0.0000	0.0000	1 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5000e- 004	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005	1 1 1 1 1	4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215
Total	0.5790	9.0000e- 005	0.0104	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005	0.0000	0.0202	0.0202	5.0000e- 005	0.0000	0.0215

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category		МТ	√yr	
Willigatod	53.7100	0.3025	7.5700e- 003	63.5288
Jgatou	53.7100	0.3025	7.5700e- 003	63.5288

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
City Park	0/3.3	10.4184	4.8000e- 004	1.0000e- 004	10.4602
Enclosed Parking Structure	0 / 1.81332	5.7248	2.7000e- 004	5.0000e- 005	5.7478
General Office Building	0.002102 / 0	8.4400e- 003	7.0000e- 005	0.0000	0.0107
Health Club	9.18223 / 0	36.8886	0.3008	7.3900e- 003	46.6103
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.178704	0.5642	3.0000e- 005	1.0000e- 005	0.5665
Unrefrigerated Warehouse-No Rail	0.02628 / 0	0.1056	8.6000e- 004	2.0000e- 005	0.1334
Total		53.7100	0.3025	7.5700e- 003	63.5288

7.2 Water by Land Use Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	√yr	
City Park	0/3.3	10.4184	4.8000e- 004	1.0000e- 004	10.4602
Enclosed Parking Structure	0 / 1.81332	5.7248	2.7000e- 004	5.0000e- 005	5.7478
General Office Building	0.002102 / 0	8.4400e- 003	7.0000e- 005	0.0000	0.0107
Health Club	9.18223 / 0	36.8886	0.3008	7.3900e- 003	46.6103
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0.178704	0.5642	3.0000e- 005	1.0000e- 005	0.5665
Unrefrigerated Warehouse-No Rail	0.02628 / 0	0.1056	8.6000e- 004	2.0000e- 005	0.1334
Total		53.7100	0.3025	7.5700e- 003	63.5288

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

CalEEMod Version: CalEEMod.2016.3.2 Page 23 of 26 Date: 2/3/2021 1:10 PM

Harvard Westlake - Operations - South Coast AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e			
	MT/yr						
agatoa	7.7949	0.4607	0.0000	19.3114			
Unmitigated	32.4786	1.9194	0.0000	80.4642			

8.2 Waste by Land Use Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	-/yr	
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Health Club	160	32.4786	1.9194	0.0000	80.4642
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		32.4786	1.9194	0.0000	80.4642

8.2 Waste by Land Use Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	/yr	
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Health Club	38.4	7.7949	0.4607	0.0000	19.3114
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		7.7949	0.4607	0.0000	19.3114

9.0 Operational Offroad

I	Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
-----------------------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EXHIBIT 9

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
1	Acupuncture Office/Clinic	120/1,000 Gr SF	265	275
2	Arcade - Video Games	50/1,000 Gr SF	265	275
3	Auditorium (a)	3/Seat	265	275
4	Auto Parking (a)	20/1,000 Gr SF	265	275
5	Auto Mfg., Service Maintenance (b)	Actual	1,260	1,165
	Bakery	280/1,000 Gr SF	3,020	2,540
7	Bank: Headquarters	120/1,000 Gr SF	265	275
8	Bank: Branch	50/1,000 Gr SF	265	275
9	Ballroom	350/1,000 Gr SF	265	275
10	Banquet Room	350/1,000 Gr SF	265	275
11	Bar: Cocktail, Fixed Set (a) (c)	15/Seat	265	275
12	Bar: Juice, No Baking Facilities (d)	720/1,000 Gr SF	265	275
13	Bar: Juice, with Baking Facilities (d)	720/1,000 Gr SF	265	275
14	Bar: Cocktail, Public Table Area (c)	720/1,000 Gr SF	265	275
15	Barber Shop	120/1,000 Gr SF	265	275
16	Barber Shop (s)	15/Stall	265	275
17	Beauty Parlor	425/1,000 Gr SF	265	275
18	Beauty Parlor (s)	50/Stall	265	275
19	Bldg. Const/Field Office (e)	120/Office	265	275
	Bowling Alley: Alley, Lanes & Lobby Area	50/1,000 Gr SF	265	275
21	Bowling Facility: Arcade/Bar/Restaurant/Dancing	Total	Average	Average
22	Cafeteria: Fixed Seat	30/Seat	1,000	600
23	Car Wash: Automatic (b)	Actual	265	285
	Car Wash: Coin Operated Bays (b)	Actual	265	285
25	Car Wash: Hand Wash (b)	Actual	265	285
26	Car Wash: Counter & Sales Area	50/1,000 Gr SF	265	275
27	Chapel: Fixed Seat	3/Seat	265	275
28	Chiropractic Office	120/1,000 Gr SF	265	275
29	Church: Fixed Seat	3/Seat	265	275
30	Church School: Day Care/Elem	9/Occupant	265	275
31	Church School: One Day Use (s)	9/Occupant	265	275
32	Cocktail Lounge: Fixed Seat (f)	15/Seat	265	275
33	Coffee House: No Food Preparation (d)	720/1,000 Gr SF	265	275
34	Coffee House: Pastry Baking Only (d)	720/1,000 Gr SF	265	275
35	Coffee House: Serves Prepared Food (d)	25/Seat	1,000	600
36	Cold Storage: No Sales (g)	30/1,000 Gr SF	265	275
	Cold Storage: Retail Sales (g)	50/1,000 Gr SF	265	275
11	Comfort Station: Public	80/Fixture	265	275
39	Commercial Use (a)	50/1,000 Gr SF	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
40	Community Center	3/Occupant	265	275
41	Conference Room of Office Bldg.	120/1,000 Gr SF	265	275
42	Counseling Center (h)	120/1,000 Gr SF	265	275
43	Credit Union	120/1,000 Gr SF	265	275
44	Dairy	Average Flow	1,510	325
45	Dairy: Barn	Average Flow	1,510	325
46	Dairy: Retail Area	50/1,000 Gr SF	265	275
47	Dancing Area (of Bars or Nightclub) (c)	350/1,000 Gr SF	265	275
48	Dance Studio (i)	50/1,000 Gr SF	265	275
49	Dental Office/Clinic	250/1,000 Gr SF	265	275
50	Doughnut Shop	280/1,000 Gr SF	1,000	600
51	Drug Rehabilitation Center (h)	120/1,000 Gr SF	265	275
52	Equipment Booth	30/1,000 Gr SF	265	275
53	Film Processing (Retail)	50/1,000 Gr SF	265	275
54	Film Processing (Industrial)	Actual	265	275
55	Food Processing Plant (b)	Actual	2,210	1,450
56	Gas Station: Self Service	100/W.C.	265	275
57	Gas Station: Four Bays Max	430/Station	1,950	1,175
58	Golf Course Facility: Lobby/Office/Restaurant/Bar	Total	700	450
<mark>59</mark>	Gymnasium: Basketball, Volleyball (k)	200/1,000 Gr SF	265	275
60	Hanger (Aircraft)	50/1,000 Gr SF	265	275
61	Health Club/Spa (k)	650/1,000 Gr SF	265	275
62	Homeless Shelter	70/Bed	265	275
	Hospital	70/Bed	820	1,230
64	Hospital: Convalescent (a)	70/Bed	265	275
65	Hospital: Animal	300/1,000 Gr SF	820	1,230
66	Hospital: Psychiatric	70/Bed	265	275
	Hospital: Surgical (a)	360/Bed	265	275
68	Hotel: Use Guest Rooms Only (a)	120/Room	265	275
	Jail	85/Inmate	265	275
70	Kennel: Dog Kennel/Open	100/1,000 Gr SF	265	275
71	Laboratory: Commercial	250/1,000 Gr SF	265	275
	Laboratory: Industrial	Actual	265	275
	Laundromat	185/Machine	550	370
	Library: Public Area	50/1,000 Gr SF	265	275
75	Library: Stacks, Storage	30/1,000 Gr SF	265	275
76	Lobby of Retail Area (l)	50/1,000 Gr SF	265	275
77	Lodge Hall	3/Seat	265	275
78	Lounge (1)	50/1,000 Gr SF	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
79	Machine Shop (No Industrial Waste Permit Required) (b)	50/1,000 Gr SF	265	275
80	Machine Shop (Industrial)	Actual	265	275
81	Mfg or Industrial Facility (No IW Permit Required) (b)	50/1,000 Gr SF	265	275
	Mfg or Industrial Facility (Industrial)	Actual	265	275
83	Massage Parlor	250/1,000 Gr SF	265	275
84	Medical Building (a)	225/1,000 Gr SF	265	275
85	Medical: Lab in Hospital	250/1,000 Gr SF	340	275
86	Medical Office/Clinic	250/1,000 Gr SF	265	275
87	Mini-Mall (No Food)	50/1,000 Gr SF	265	275
88	Mortuary: Chapel	3/Seat	265	275
89	Mortuary: Embalming	300/1,000 Gr SF	800	800
90	Mortuary: Living Area	50/1,000 Gr SF	265	275
91	Motel: Use Guest Room Only (a)	120/Room	265	275
92	Museum: All Area	30/1,000 Gr SF	265	275
93	Museum: Office Over 15%	120/1,000 Gr SF	265	275
94	Museum: Sales Area	50/1,000 Gr SF	265	275
95	Office Building (a)	120/1,000 Gr SF	265	275
96	Office Bldg w/Cooling Tower	170/1,000 Gr SF	265	275
97	Plating Plant (No IW Permit Required) (b)	50/1,000 Gr SF	265	275
98	Plating Plant (Industrial) (b)	Actual	265	275
99	Pool Hall (No Alcohol)	50/1,000 Gr SF	265	275
100	Post Office: Full Service (m)	120/1,000 Gr SF	265	275
	Post Office: Private Mail Box Rental	50/1,000 Gr SF	265	275
102	Prisons	175/Inmate	265	275
103	Residential Dorm: College or Residential (n)	70/Student	265	275
104	Residential: Boarding House	70/Bed	265	275
105	Residential: Apt - Bachelor (a)	75/DU	265	275
	Residential: Apt - 1 BDR (a) (o)	110/DU	265	275
	Residential: Apt - 2 BDR (a) (o)	150/DU	265	275
108	Residential: Apt - 3 BDR (a) (o)	190/DU	265	275
109	Residential: Apt ->3 BDR (o)	40/BDR	265	275
110	Residential: Condo - 1 BDR (o)	110/DU	265	275
111	Residential: Condo - 2 BDR (o)	150/DU	265	275
112	Residential: Condo - 3 BDR (o)	190/DU	265	275
113	Residential: Condo - >3 BDR (o)	40/BDR	265	275
	Residential: Duplex/Townhouse - 1 BR (o)	110/DU	265	275
	Residential: Duplex/Townhouse - 2 BR (o)	150/DU	265	275
	Residential: Duplex/Townhouse - 3 BR (o)	190/DU	265	275
117	Residential: Duplex/Townhouse - >3 BR (o)	40/BDR	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
118	Residential: SFD - 1 BR (o)	140/DU	265	275
119	Residential: SFD - 2 BR (o)	185/DU	265	275
120	Residential: SFD - 3 BR (o)	230/DU	265	275
121	Residential: SFD - >3 BR (o)	45/BDR	265	275
122	Residential Room Addition: Bedroom (o)	45/BDR	265	275
123	Residential Room Conversion: Into a Bedroom (o)	45/BDR	265	275
124	Residential: Mobile Home	Same as Apt	265	275
125	Residential: Artist (2/3 Area)	75/DU	265	275
126	Residential: Artist Residence	75/DU	265	275
127	Residential: Guest Home w/ Kitchen	Same as Apt	265	275
128	Residential: Guest Home w/o Kitchen	45/BDR	265	275
129	Rest Home	70/Bed	555	490
130	Restaurant: Drive-In	50/Stall	1000	600
131	Restaurant: Drive-In Seating Area	25/Seat	1000	600
132	Restaurant: Fast Food Indoor Seat	25/Seat	1000	600
133	Restaurant: Fast Food Outdoor Seat	25/Seat	1000	600
134	Restaurant: Full Service Indoor Seat (a)	30/Seat	1000	600
135	Restaurant: Full Service Outdoor Seat	30/Seat	1000	600
136	Restaurant: Take Out	300/1,000 Gr SF	1000	600
137	Retail Area (greater than 100,000 SF)	50/1,000 Gr SF	265	275
138	Retail Area (less than 100,000 SF)	25/1,000 Gr SF	265	275
139	Rifle Range: Shooting Stalls/Lanes, Lobby	50/1,000 Gr SF	265	275
140	Rifle Range Facility: Bar/Restaurant	Total	Average	Average
141	School: Arts/Dancing/Music (i)	11/Student	265	275
142	School: Elementary/Jr. High (a) (p)	9/Student	265	275
143	School: High School (a) (p)	11/Student	265	275
144	School: Kindergarten (s)	9/Student	265	275
145	School: Martial Arts (i)	9/Student	265	275
146	School: Nursery-Day Care (p)	9/Child	265	275
147	School: Special Class (p)	9/Student	265	275
148	School: Trade or Vocational (p)	11/Student	265	275
149	School: Training (p)	11/Student	265	275
150	School: University/College (a) (p)	16/Student	265	275
	School: Dormitory (a) (n)	70/Student	265	275
	School: Stadium, Pavilion	3/Seat	265	275
	Spa/Jacuzzi (Commercial with backwash filters)	Total	265	275
	Storage: Building/Warehouse	30/1,000 Gr SF	265	275
ı——	Storage: Self-Storage Bldg	30/1,000 Gr SF	265	275
156	Store: Ice Cream/Yogurt	25/1,000 Gr SF	1000	600

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
157	Store: Retail (l)	50/1,000 Gr SF	265	275
158	Studio: Film/TV - Audience Viewing Room (q)	3/Seat	265	275
159	Studio: Film/TV - Regular Use Indoor Filming Area (q)	50/1,000 Gr SF	265	275
160	Studio: Film/TV - Ind. Use Film Process/Machine Shop (q)	50/1,000 Gr SF	265	275
161	Studio: Film/TV - Ind. Use Film Process/Machine Shop	Total	265	275
162	Studio: Recording	50/1,000 Gr SF	265	275
163	Swimming Pool (Commercial with backwash filters)	Total Total	265	275
164	Tanning Salon: Independent, No Shower (r)	50/1,000 Gr SF	265	275
165	Tanning Salon: Within a Health Spa/Club	640/1,000 Gr SF	265	275
166	Theater: Drive-In	6/Vehicle	265	275
167	Theater: Live/Music/Opera	3/Seat	265	275
168	Theater: Cinema	3/Seat	265	275
169	Tract: Commercial/Residential	1/Acre	265	275
170	Trailer: Const/Field Office (e)	120/Office	265	275
171	Veterinary Clinic/Office	250/1,000 Gr SF	265	275
172	Warehouse	30/1,000 Gr SF	265	275
173	Warehouse w/ Office	Total	265	275
174	Waste Dump: Recreational	400/Station	2650	2750
175	Wine Tasting Room: Kitchen	200/1,000 Gr SF	265	275
176	Wine Tasting Room: All Area	50/1,000 Gr SF	265	275

(GR.SQ.FT.) = Gross Square Feet: area included within the exterior of the surrounding walls of a building excluding court.

Line	FACILITY DESCRIPTION	FEE RATE
No.		
1	Acupuncture Office/Clinic	\$495/1000 GR.SQ.FT.
2	Arcade - Video Games	\$206/1000 GR.SQ.FT.
3	Auditorium (a)	\$12/SEAT
4	Auto Parking (a)	\$83/1000 GR.SQ.FT.
5	Auto Mfg., Service Maintenance (b)	Actual
	Bakery	\$2956/1000 GR.SQ.FT.
7	Bank: Headquarters	\$495/1000 GR.SQ.FT.
8	Bank: Branch	\$206/1000 GR.SQ.FT.
9	Ballroom	\$1445/1000 GR.SQ.FT.
	Banquet Room	\$1445/1000 GR.SQ.FT.
11	Bar: Cocktail, Fixed Seat (a) (c)	\$62/SEAT
12	Bar: Juice, No Baking Facilities (d)	\$2973/1000 GR.SQ.FT.
13	Bar: Juice, with Baking Facilities (d)	\$2973/1000 GR.SQ.FT.
	Bar: Cocktail, Public Table Area (c)	\$2973/1000 GR.SQ.FT.
15	Barber Shop	\$495/1000 GR.SQ.FT.
16	Barber Shop (s)	\$62/STALL.
17	Beauty Parlor	\$1755/1000 GR.SQ.FT.
	Beauty Parlor (s)	\$206/STALL.
19	Bldg. Const/Field Office (e)	\$495/OFFICE
20	Bowling Alley: Alley, Lanes & Lobby Area	\$206/1000 GR.SQ.FT.
	Bowling Facility: Arcade/Bar/Restaurant/Dancing	Total
	Cafeteria: Fixed Seat	\$165/SEAT
23	Car Wash: Automatic (b)	Actual
24	Car Wash: Coin Operated Bays (b)	Actual
	Car Wash: Hand Wash (b)	Actual
	Car Wash: Counter & Sales Area	\$206/1000 GR.SQ.FT.
	Chapel: Fixed Seat	\$12/SEAT
	Chiropractic Office	\$495/1000 GR.SQ.FT.
	Church: Fixed Seat	\$12/SEAT
30	Church School: Day Care/Elem	\$37/OCCUPANT
	Church School: One Day Use (s)	\$37/OCCUPANT
32	Cocktail Lounge: Fixed Seat (f)	\$62/SEAT
	Coffee House: No Food Preparation (d)	\$2973/1000 GR.SQ.FT.
	Coffee House: Pastry Baking Only (d)	\$2973/1000 GR.SQ.FT.
	Coffee House: Serves Prepared Food (d)	\$138/SEAT
	Cold Storage: No Sales (g)	\$124/1000 GR.SQ.FT.
37	Cold Storage: Retail Sales (g)	\$206/1000 GR.SQ.FT.

(GR.SQ.FT.) = Gross Square Feet: area included within the exterior of the surrounding walls of a building excluding court.

38	Comfort Station: Public	\$330/FIXTURE			
39	Commercial Use (a)	\$206/1000 GR.SQ.FT.			
40	Community Center	\$12/OCCUPANT			
41	Conference Room of Office Bldg.	\$495/1000 GR.SQ.FT.			
42	Counseling Center (h)	\$495/1000 GR.SQ.FT.			
43	Credit Union	\$495/1000 GR.SQ.FT.			
44	Dairy	Average Flow			
45	Dairy: Barn	Average Flow			
46	Dairy: Retail Area	\$206/1000 GR.SQ.FT.			
47	Dancing Area (of Bars or Nightclub) (c)	\$1445/1000 GR.SQ.FT.			
48	Dance Studio (i)	\$206/1000 GR.SQ.FT.			
49	Dental Office/Clinic	\$1032/1000 GR.SQ.FT.			
50	Doughnut Shop	\$1540/1000 GR.SQ.FT.			
51	Drug Rehabilitation Center (h)	\$495/1000 GR.SQ.FT.			
52	Equipment Booth	\$124/1000 GR.SQ.FT.			
53	Film Processing (Retail)	\$206/1000 GR.SQ.FT.			
54	Film Processing (Industrial)	Actual			
55	Food Processing Plant (b)	Actual			
56	Gas Station: Self Service	\$413/W.C.			
57	Gas Station: Four Bays Max	\$3211/STATION			
58	Golf Course Facility: Lobby/Office/Restaurant/Bar	Total			
59	Gymnasium: Basketball, Volleyball (k)	\$826/1000 GR.SQ.FT.			
60	Hanger (Aircraft)	\$206/1000 GR.SQ.FT.			
61	Health Club/Spa (k)	\$2684/1000 GR.SQ.FT.			
62	Homeless Shelter	\$289/BED			
63	Hospital	\$422/BED			
64	Hospital: Convalescent (a)	\$289/BED			
65	Hospital: Animal	\$1811/1000 GR.SQ.FT.			
	Hospital: Psychiatric	\$289/BED			
	Hospital: Surgical (a)	\$1486/BED			
	Hotel: Use Guest Rooms Only (a)	\$495/ROOM			
	Jail	\$351/INMATE			
70	Kennel: Dog Kennel/Open	\$413/1000 GR.SQ.FT.			
71	Laboratory: Commercial	\$1032/1000 GR.SQ.FT.			
	Laboratory: Industrial	Actual			
	Laundromat	\$855/MACHINE			
	Library: Public Area	\$206/1000 GR.SQ.FT.			
	Library: Stacks, Storage	\$124/1000 GR.SQ.FT.			
76	Lobby of Retail Area (l)	\$206/1000 GR.SQ.FT.			

(GR.SQ.FT.) = Gross Square Feet: area included within the exterior of the surrounding walls of a building excluding court.

77	Lodge Hall	\$12/SEAT
78	Lounge (1)	\$206/1000 GR.SQ.FT.
79	Machine Shop (No Industrial Waste Permit Required) (b)	\$206/1000 GR.SQ.FT.
80	Machine Shop (Industrial)	Actual
81	Mfg or Industrial Facility (No IW Permit Required) (b)	\$206/1000 GR.SQ.FT.
82	Mfg or Industrial Facility (Industrial)	Actual
83	Massage Parlor	\$1032/1000 GR.SQ.FT.
	Medical Building (a)	\$929/1000 GR.SQ.FT.
85	Medical: Lab in Hospital	\$1057/1000 GR.SQ.FT.
86	Medical Office/Clinic	\$1032/1000 GR.SQ.FT.
87	Mini-Mall (No Food)	\$206/1000 GR.SQ.FT.
88	Mortuary: Chapel	\$12/SEAT
	Mortuary: Embalming	\$1644/1000 GR.SQ.FT.
	Mortuary: Living Area	\$206/1000 GR.SQ.FT.
	Motel: Use Guest Room Only (a)	\$495/ROOM
92	Museum: All Area	\$124/1000 GR.SQ.FT.
II———	Museum: Office Over 15%	\$495/1000 GR.SQ.FT.
ı	Museum: Sales Area	\$206/1000 GR.SQ.FT.
	Office Building (a)	\$495/1000 GR.SQ.FT.
	Office Bldg w/Cooling Tower	\$702/1000 GR.SQ.FT.
	Plating Plant (No IW Permit Required) (b)	\$206/1000 GR.SQ.FT.
	Plating Plant (Industrial) (b)	Actual
ı 	Pool Hall (No Alcohol)	\$206/1000 GR.SQ.FT.
ı——	Post Office: Full Service (m)	\$495/1000 GR.SQ.FT.
II——	Post Office: Private Mail Box Rental	\$206/1000 GR.SQ.FT.
II———	Prisons	\$722/INMATE
	Residential Dorm: College or Residential (n)	\$289/STUDENT
	Residential: Boarding House	\$289/BED
	Residential: Apt - Bachelor (a)	\$310/DU
	Residential: Apt - 1 BDR (a) (o)	\$454/DU
	Residential: Apt - 2 BDR (a) (o)	\$619/DU
	Residential: Apt - 3 BDR (a) (o)	\$784/DU
	Residential: Apt - >3 BDR (o)	\$165 PER ADDITIONAL BEDROOM
II——	Residential: Condo - 1 BDR (o)	\$454/DU
l———	Residential: Condo - 2 BDR (o)	\$619/DU
ı——	Residential: Condo - 3 BDR (o)	\$784/DU
ı——	Residential: Condo - >3 BDR (o)	\$165 PER ADDITIONAL BEDROOM
	Residential: Duplex/Townhouse - 1 BR (o)	\$454/DU
115	Residential: Duplex/Townhouse - 2 BR (o)	\$619/DU

(GR.SQ.FT.) = Gross Square Feet: area included within the exterior of the surrounding walls of a building excluding court.

116 Residential: Duplex/Townhouse - 3 BR (o)	\$784/DU
117 Residential: Duplex/Townhouse - >3 BR (o)	\$165 PER ADDITIONAL BEDROOM
118 Residential: SFD - 1 BR (o)	\$578/DU
119 Residential: SFD - 2 BR (o)	\$764/DU
120 Residential: SFD - 3 BR (o)	\$950/DU
121 Residential: SFD - >3 BR (o)	\$186/BDR
122 Residential Room Addition: Bedroom (o)	\$186/BDR
123 Residential Room Conversion: Into a Bedroom (o)	\$186/BDR
124 Residential: Mobile Home	Same as Apt
125 Residential: Artist (2/3 Area)	\$310/DU
126 Residential: Artist Residence	\$310/DU
127 Residential: Guest Home w/ Kitchen	Same as Apt
128 Residential: Guest Home w/o Kitchen	\$186/BDR
129 Rest Home	\$334/BED
130 Restaurant: Drive-In	\$275/STALL
131 Restaurant: Drive-In Seating Area	\$138/SEAT
132 Restaurant: Fast Food Indoor Seat	\$138/SEAT
133 Restaurant: Fast Food Outdoor Seat	\$138/SEAT
134 Restaurant: Full Service Indoor Seat (a)	\$165/SEAT
135 Restaurant: Full Service Outdoor Seat	\$165/SEAT
136 Restaurant: Take Out	\$1650/1000 GR.SQ.FT.
137 Retail Area (greater than 100,000 SF)	\$206/1000 GR.SQ.FT.
138 Retail Area (less than 100,000 SF)	\$103/1000 GR.SQ.FT.
139 Rifle Range: Shooting Stalls/Lanes, Lobby	\$206/1000 GR.SQ.FT.
140 Rifle Range Facility: Bar/Restaurant	Total
141 School: Arts/Dancing/Music (i)	\$45/1000 GR.SQ.FT.
142 School: Elementary/Jr. High (a) (p)	\$37/STUDENT
143 School: High School (a) (p)	\$45/STUDENT
144 School: Kindergarten (s)	\$37/STUDENT
145 School: Martial Arts (i)	\$37/STUDENT
146 School: Nursery-Day Care (p)	\$37/CHILD
147 School: Special Class (p)	\$37/STUDENT
148 School: Trade or Vocational (p)	\$45/STUDENT
149 School: Training (p)	\$45/STUDENT
150 School: University/College (a) (p)	\$66/STUDENT
151 School: Dormitory (a) (n)	\$289/STUDENT
152 School: Stadium, Pavilion	\$12/SEAT
153 Spa/Jacuzzi (Commercial with backwash filters)	Total
154 Storage: Building/Warehouse	\$124/1000 GR.SQ.FT.

(GR.SQ.FT.) = Gross Square Feet: area included within the exterior of the surrounding walls of a building excluding court.

155	Storage: Self-Storage Bldg	\$124/1000 GR.SQ.FT.
156	Store: Ice Cream/Yogurt	\$138/1000 GR.SQ.FT.
157	Store: Retail (1)	\$206/1000 GR.SQ.FT.
158	Studio: Film/TV - Audience Viewing Room (q)	\$12/SEAT
159	Studio: Film/TV - Regular Use Indoor Filming Area (q)	\$206/1000 GR.SQ.FT.
160	Studio: Film/TV - Ind. Use Film Process/Machine Shop (q)	\$206/1000 GR.SQ.FT.
161	Studio: Film/TV - Ind. Use Film Process/Machine Shop	Total
	Studio: Recording	\$206/1000 GR.SQ.FT.
163	Swimming Pool (Commercial with backwash filters)	Total
164	Tanning Salon: Independent, No Shower (r)	\$206/1000 GR.SQ.FT.
165	Tanning Salon: Within a Health Spa/Club	\$2642/1000 GR.SQ.FT.
166	Theater: Drive-In	\$25/VEHICLE
167	Theater: Live/Music/Opera	\$12/SEAT
168	Theater: Cinema	\$12/SEAT
169	Tract: Commercial/Residential	\$4/ACRE
170	Trailer: Const/Field Office (e)	\$495/OFFICE
171	Veterinary Clinic/Office	\$1032/1000 GR.SQ.FT.
172	Warehouse	\$124/1000 GR.SQ.FT.
173	Warehouse w/ Office	Total
174	Waste Dump: Recreational	\$4130/STATION
175	Wine Tasting Room: Kitchen	\$826/1000 GR.SQ.FT.
176	Wine Tasting Room: All Area	\$206/1000 GR.SQ.FT.

EXHIBIT 10

4141 Whitsett Avenue Utility Usage

	Month		Unit of		Unit of
Utility	Ending Account #	Usage	Measurement	Usage	Measurement
Water	1/31/2018 475 069 0000	149	HCF	111452	Gallons
Water	1/31/2018 575 069 0000	122	HCF	91256	Gallons
Water	1/31/2018 675 069 0000	469	HCF	350812	Gallons
Water	2/28/2018 475 069 0000	291	HCF	217668	Gallons
Water	2/28/2018 575 069 0000	176	HCF	131648	Gallons
Water	2/28/2018 675 069 0000	318	HCF	237864	Gallons
Water	3/31/2018 475 069 0000	114	HCF	85272	Gallons
Water	3/31/2018 575 069 0000	101	HCF	75548	Gallons
Water	3/31/2018 675 069 0000	134	HCF	100232	Gallons
Water	4/30/2018 475 069 0000	492	HCF	368016	Gallons
Water	4/30/2018 575 069 0000	266	HCF	198968	Gallons
Water	4/30/2018 675 069 0000	596	HCF	445808	Gallons
Water	5/31/2018 475 069 0000	475	HCF	355300	Gallons
Water	5/31/2018 575 069 0000	270	HCF	201960	Gallons
Water	5/31/2018 675 069 0000	588	HCF	439824	Gallons
Water	6/30/2018 475 069 0000	745	HCF	557260	Gallons
Water	6/30/2018 575 069 0000	376	HCF	281248	Gallons
Water	6/30/2018 675 069 0000	889	HCF	664972	Gallons
Water	7/31/2018 475 069 0000	980	HCF	733040	Gallons
Water	7/31/2018 575 069 0000	488	HCF	365024	Gallons
Water	7/31/2018 675 069 0000	1206	HCF	902088	Gallons
Water	8/31/2018 475 069 0000	903	HCF	675444	Gallons
Water	8/31/2018 575 069 0000	471	HCF	352308	Gallons
Water	8/31/2018 675 069 0000	1132	HCF	846736	Gallons
Water	9/30/2018 475 069 0000	621	HCF	464508	Gallons
Water	9/30/2018 575 069 0000	364	HCF	272272	Gallons
Water	9/30/2018 675 069 0000	730	HCF	546040	Gallons
Water	10/31/2018 475 069 0000	499	HCF	373252	Gallons
Water	10/31/2018 575 069 0000	318	HCF	237864	Gallons
Water	10/31/2018 675 069 0000	608	HCF	454784	Gallons
Water	11/30/2018 475 069 0000	300	HCF	224400	Gallons
Water	11/30/2018 575 069 0000	220	HCF	164560	Gallons
Water	11/30/2018 675 069 0000	300	HCF	224400	Gallons
Water	12/31/2018 475 069 0000	102	HCF	76296	Gallons
Water	12/31/2018 575 069 0000	101	HCF	75548	Gallons
Water	12/31/2018 675 069 0000	109	HCF	81532	Gallons

TOTAL 11985204 Gallons

Notes		
INDIES		

Estimated using chart in June, 2018 bill

Estimated using chart in December, 2018 bill Estimated using chart in December, 2018 bill Estimated using chart in December, 2018 bill

EXHIBIT 11

		2,412007412	WORKSHEET						T	
Lar	ndscape Area			lerence anspiration		Conversion Factor		Evapotranspiration Adjustment Factor		
(LA)				Eto)		(to Gallons/SF)		(ETAF)		
Regular	267,585		Reference Site	Eto		0.62		0.45		
Special			Los Angeles	50.1						
TOTAL	267,585									
			 Estimat	Led Applied Water	r Use (EAWU):					
	REGULAR LANDSCAP	E AREAS			_					
Hydrozone No.	Hydrozone Description	Hydrozone Area (FT ²)	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	(ETAF x Area)	Estimated Total Water Use (Gallons) (ETWU)		
H-1	Low Water Usage	18,579	0.2	Drip	0.81	0.25	4,587.41	142,494.05		
H-2	Low Water Usage	162,874	0.2	Spray	0.75	0.27	43,433.07	1,349,117.92		
	Medium Water Usage	25,459	0.5	Drip	0.81	0.62	15,715.43	488,152.75		
H-4	Medium Water Usage	51,913	0.5	Spray	0.75	0.67	34,608.67	1,075,014.40		
H-WF-1	Water Feature	8,760	1	Recirculating	1	1.00	8,760.00	272,103.12		
	Total Area	267,585			TOTALS	267585	107,104.57	3,326,882.24		
	SPECIAL LANDSCAPE			I		T	1 /	<u> </u>		
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	ETAF	(ETAF x Area)	Estimated Total Water		
No.	Description	(FT ²)	(PF)		(IE)	(PF/IE)		Use (ETWU)		
	Native Planting (L)	0	0.2	DRIP	0.81	0.25	0.00	0.00		
	Bioswale (L)	0	0.2	DRIP	0.81	0.25	0.00	0.00		
	Demo Garden (M)	0	0.5	DRIP	0.81	0.62	0.00	0.00		
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	0.25	0.00	0.00		
	Total Area	0			TOTALS	0	0.00	0.00		
	ETAF Calc	ulations								
	Regular Landscape Area				ESTIMATE	D TOTAL WATE	K USE	3,326,882	GALLONS	
	Average ETAF	0.40				(ETWU)				
					MAXIMUM ALL	OW WATER AL	LOWANCE	2 740 076	CALLONS	
	All Landscape Areas Sitewide ETAF	0.40				(MAWA)		3,740,276	GALLONS	

Month	y Estimated Total Water	· Usa /FTWU)·							
WOTET	LStilliated Total Water	<u>o</u> se (L1440).							
JANUARY	Reference Eto	2.2							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
No.	Description	(FT ²)	(PF)		(IE)	Water Use			
H-1	Low Water Usage	18579	0.2	Drip	0.81	6,257.22			
H-2	Low Water Usage	162874	0.2	Spray	0.75	59,242.70			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	21,435.85			
H-WF-1	Water Feature	8760	1	Recirculating	1	11,948.64			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
					TOTAL	98,884.42	GALLONS		
FEBRUARY	Reference Eto	2.7							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	7,679.32			
H-2	Low Water Usage	162874	0.2	Spray	0.75	72,706.95			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	26,307.63			
H-WF-1	Water Feature	8760	1	Recirculating	1	14,664.24			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
					TOTAL	121,358.15	GALLONS		

MARCH	Reference Eto	3.7						
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone		
H-1	Low Water Usage	18579	0.2	Drip	0.81	10,523.51		
H-2	Low Water Usage	162874	0.2	Spray	0.75	99,635.45		
H-3	Medium Water Usage	25459	0.5	Drip	0.81	36,051.20		
H-WF-1	Water Feature	8760	1	Recirculating	1	20,095.44		
SLA								
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-		
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-		
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-		
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-		
					TOTAL	166,305.61	GALLONS	
APRIL	Reference Eto	4.7						
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone		
H-1	Low Water Usage	18579	0.2	Drip	0.81	13,367.71		
H-2	Low Water Usage	162874	0.2	Spray	0.75	126,563.96		
H-3	Medium Water Usage	25459	0.5	Drip	0.81	45,794.77		
H-WF-1	Water Feature	8760	1	Recirculating	1	25,526.64		
SLA								
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-		
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-		
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-		
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-		
					TOTAL	211,253.07	GALLONS	
						·		

MAY	Reference Eto	5.5							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	15,643.06			
H-2	Low Water Usage	162874	0.2	Spray	0.75	148,106.76			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	53,589.62			
H-WF-1	Water Feature	8760	1	Recirculating	1	29,871.60			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
					TOTAL	247,211.04	GALLONS		
JUNE	Reference Eto	5.8							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	16,496.32			
H-2	Low Water Usage	162874	0.2	Spray	0.75	72,706.95			
H-3	Medium Water Usage	25459	0.5	Drip	0.73	26,307.63			
H-WF-1	Water Feature	8760	1	Recirculating	1	14,664.24			
SLA	valor realare	0700		reconculating	<u> </u>	14,004.24			
H-4	Native Planting (L)	0	0.2	DRIP	0.81	_			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
			0	J	TOTAL	130,175.14	GALLONS		
JULY	Reference Eto	6.2							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	17,633.99			
H-2	Low Water Usage	162874	0.2	Spray	0.75	166,956.71			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	60,410.12			
H-WF-1	Water Feature	8760	1	Recirculating	1	33,673.44			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
					TOTAL	278,674.26	CALLONG		

AUGUST	Reference Eto	5.9							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	16,780.74			
H-2	Low Water Usage	162874	0.2	Spray	0.75	158,878.16			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	57,487.05			
H-WF-1	Water Feature	8760	1	Recirculating	1	32,044.08			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
					TOTAL	265,190.02	GALLONS		
SEPTEMBER	Reference Eto	5							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
H-1	Low Water Usage	18579	0.2	Drip	0.81	14,220.96			
H-2	Low Water Usage	162874	0.2	Spray	0.75	134,642.51			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	48,717.84			
H-WF-1	Water Feature	8760	1	Recirculating	1	27,156.00			
SLA									
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-			
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-			
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
	, ,				TOTAL	224,737.31	GALLONS		
						·			
OCTOBER	Reference Eto	3.9							
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone			
No.	Description	(FT ²)	(PF)		(IE)	Water Use			
H-1	Low Water Usage	18579	0.2	Drip	0.81	11,092.35			
H-2	Low Water Usage	162874	0.2	Spray	0.75	105,021.16			
H-3	Medium Water Usage	25459	0.5	Drip	0.81	37,999.91			
H-WF-1	Water Feature	8760	1	Recirculating	1	21,181.68			
SLA				,		,			
H-4	Native Planting (L)	0	0.2	DRIP	0.81	_			
H-5	Bioswale (L)	0	0.2	DRIP	0.81				
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	_			
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-			
	1100: 00:00: (2)	<u> </u>		2	TOTAL	175,295.10	GALLONS		
					ISTAL	1.7,200.10			

NOVEMBER	Reference Eto	2.6						
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone		
No.	Description	(FT ²)	(PF)		(IE)	Water Use		
H-1	Low Water Usage	18579	0.2	Drip	0.81	7,394.90		
H-2	Low Water Usage	162874	0.2	Spray	0.75	70,014.10		
H-3	Medium Water Usage	25459	0.5	Drip	0.81	25,333.28		
H-WF-1	Water Feature	8760	1	Recirculating	1	14,121.12		
SLA								
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-		
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-		
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-		
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-		
					TOTAL	116,863.40	GALLONS	
DECEMBER	Reference Eto	1.9						
Hydrozone	Hydrozone	Hydrozone Area	Plant Factor	Irrigation Method	Irrigation Efficiency	Hydrozone		
No.	Description	(FT ²)	(PF)		(IE)	Water Use		
H-1	Low Water Usage	18579	0.2	Drip	0.81	5,403.97		
H-2	Low Water Usage	162874	0.2	Spray	0.75	51,164.15		
H-3	Medium Water Usage	25459	0.5	Drip	0.81	18,512.78		
H-WF-1	Water Feature	8760	1	Recirculating	1	10,319.28		
SLA				-	-			
H-4	Native Planting (L)	0	0.2	DRIP	0.81	-		
H-5	Bioswale (L)	0	0.2	DRIP	0.81	-		
H-6	Demo Garden (M)	0	0.5	DRIP	0.81	-		
H-7	Roof Garden (L)	0	0.2	DRIP	0.81	-		
					TOTAL	85.400.18	GALLONS	
					101712	,	5.1225.15	

O-2 Visitor Information for Solid Waste Calculations

Appenix O-2: Visitor Information for Solid Waste Calculations

Category 1: Number of Individuals Onsite Associated with HW Activities (based on 2018-2019 data from Harvard-Westlake)

Date	Day of Week	No. of People for HW Athletics
8/1/2018	Wednesday	138
8/2/2018	Thursday	138
8/3/2018	Friday	138
8/4/2018	Saturday	0
8/5/2018	Sunday	0
8/6/2018	Monday	138
8/7/2018	Tuesday	138
8/8/2018	Wednesday	138
8/9/2018	Thursday	138
8/10/2018	Friday	138
8/11/2018	Saturday	0
8/12/2018	Sunday	0
8/13/2018	Monday	138
8/14/2018	Tuesday	138
8/15/2018	Wednesday	138
8/16/2018	Thursday	138
8/17/2018	Friday	138
8/18/2018	Saturday	0
8/19/2018	Sunday	0
8/20/2018	Monday	138
8/21/2018	Tuesday	138
8/22/2018	Wednesday	138
8/23/2018	Thursday	138
8/24/2018	Friday	138
8/25/2018	Saturday	0
8/26/2018	Sunday	0
8/27/2018	Monday	328
8/28/2018	Tuesday	138
8/29/2018	Wednesday	194
8/30/2018	Thursday	190
8/31/2018	Friday	226
9/1/2018	Saturday	0
9/2/2018	Sunday	0
9/3/2018	Monday	373
9/4/2018	Tuesday	568
9/5/2018	Wednesday	403
9/6/2018	Thursday	392
9/7/2018	Friday	518
9/8/2018	Saturday	0
9/9/2018	Sunday	0

9/10/2018	Monday	373
9/11/2018	Tuesday	365
9/12/2018	Wednesday	373
9/13/2018	Thursday	349
9/14/2018	Friday	418
9/15/2018	Saturday	0
9/16/2018	Sunday	0
9/17/2018	Monday	396
9/18/2018	Tuesday	365
9/19/2018	Wednesday	373
	•	558
9/20/2018	Thursday	
9/21/2018	Friday	289
9/22/2018	Saturday	0
9/23/2018	Sunday	0
9/24/2018	Monday	373
9/25/2018	Tuesday	418
9/26/2018	Wednesday	357
9/27/2018	Thursday	365
9/28/2018	Friday	289
9/29/2018	Saturday	442
9/30/2018	Sunday	0
10/1/2018	Monday	393
10/2/2018	Tuesday	388
10/3/2018	Wednesday	473
10/4/2018	Thursday	581
10/5/2018	Friday	289
10/6/2018	Saturday	0
10/7/2018	Sunday	0
10/8/2018	Monday	373
10/9/2018	Tuesday	365
10/10/2018	Wednesday	373
10/11/2018	Thursday	408
10/12/2018	Friday	289
	•	
10/13/2018	Saturday	0
10/14/2018	Sunday	0
10/15/2018	Monday	373
10/16/2018	Tuesday	388
10/17/2018	Wednesday	423
10/18/2018	Thursday	408
10/19/2018	Friday	289
10/20/2018	Saturday	224
10/21/2018	Sunday	0
10/22/2018	Monday	373
10/23/2018	Tuesday	365
10/24/2018	Wednesday	393
10/25/2018	Thursday	408
10/26/2018	Friday	289
	•	

10/27/2018	Saturday	0
10/28/2018	Sunday	0
10/29/2018	Monday	373
10/30/2018	Tuesday	374
10/31/2018	Wednesday	373
11/1/2018	Thursday	366
11/2/2018	Friday	347
11/3/2018	Saturday	0
11/4/2018	Sunday	0
11/5/2018	Monday	398
11/6/2018	Tuesday	398
11/7/2018	Wednesday	398
	•	
11/8/2018	Thursday	398
11/9/2018	Friday	347
11/10/2018	Saturday	0
11/11/2018	Sunday	0
11/12/2018	Monday	398
11/13/2018	Tuesday	398
11/14/2018	Wednesday	521
11/15/2018	Thursday	521
11/16/2018	Friday	337
11/17/2018	Saturday	0
11/18/2018	Sunday	0
11/19/2018	Monday	503
11/20/2018	Tuesday	481
11/21/2018	Wednesday	503
11/22/2018	Thursday	481
11/23/2018	Friday	337
11/24/2018	Saturday	0
11/25/2018	Sunday	0
11/26/2018	Monday	503
	•	
11/27/2018	Tuesday	615
11/28/2018	Wednesday	503
11/29/2018	Thursday	535
11/30/2018	Friday	468
12/1/2018	Saturday	0
12/2/2018	Sunday	0
12/3/2018	Monday	489
12/4/2018	Tuesday	539
12/5/2018	Wednesday	631
12/6/2018	Thursday	490
12/7/2018	Friday	323
12/8/2018	Saturday	0
12/9/2018	Sunday	0
12/10/2018	Monday	489
12/11/2018	Tuesday	490
12/12/2018	Wednesday	569
, - <i>-</i> , -0+0	Treatiesady	505

12/13/2018	Thursday	490
12/14/2018	Friday	323
12/15/2018	Saturday	0
12/16/2018	Sunday	0
12/17/2018	Monday	489
12/18/2018	Tuesday	490
12/19/2018	Wednesday	489
12/20/2018	Thursday	490
12/21/2018	Friday	796
12/22/2018	Saturday	0
12/23/2018	Sunday	0
12/24/2018	Monday	489
12/25/2018	Tuesday	490
12/26/2018	Wednesday	489
12/27/2018	Thursday	490
12/28/2018	Friday	323
12/29/2018	Saturday	0
12/30/2018	Sunday	0
12/31/2018	Monday	489
1/1/2019	Tuesday	535
1/2/2019	•	583
	Wednesday	
1/3/2019	Thursday	535
1/4/2019	Friday	1612
1/5/2019	Saturday	162
1/6/2019	Sunday	0
1/7/2019	Monday	534
1/8/2019	Tuesday	509
1/9/2019	Wednesday	681
1/10/2019	Thursday	535
1/11/2019	Friday	1718
1/12/2019	Saturday	238
1/13/2019	Sunday	0
1/14/2019	Monday	508
1/15/2019	Tuesday	509
1/16/2019	Wednesday	1042
1/17/2019	Thursday	581
1/18/2019	Friday	464
1/19/2019	Saturday	162
1/20/2019	Sunday	0
1/21/2019	Monday	534
1/22/2019	Tuesday	509
1/23/2019	Wednesday	534
1/24/2019	Thursday	535
1/25/2019	Friday	368
1/26/2019	Saturday	0
1/27/2019	Sunday	0
1/28/2019	Monday	619

1/29/2019	Tuesday	623
1/30/2019	Wednesday	583
1/31/2019	Thursday	563
2/1/2019	Friday	551
2/2/2019	Saturday	0
2/3/2019	Sunday	0
2/4/2019	Monday	551
2/5/2019	Tuesday	551
2/6/2019	Wednesday	551
2/7/2019	Thursday	551
2/8/2019	Friday	551
2/9/2019	Saturday	0
2/10/2019	Sunday	0
2/11/2019	Monday	551
2/12/2019	Tuesday	551
2/13/2019	Wednesday	551
2/14/2019	Thursday	551
2/15/2019	•	551
•	Friday	221
2/16/2019	Saturday	
2/17/2019	Sunday	0
2/18/2019	Monday	535
2/19/2019	Tuesday	578
2/20/2019	Wednesday	655
2/21/2019	Thursday	535
2/22/2019	Friday	614
2/23/2019	Saturday	0
2/24/2019	Sunday	0
2/25/2019	Monday	535
2/26/2019	Tuesday	535
2/27/2019	Wednesday	535
2/28/2019	Thursday	657
3/1/2019	Friday	487
3/2/2019	Saturday	0
3/3/2019	Sunday	0
3/4/2019	Monday	547
3/5/2019	Tuesday	704
3/6/2019	Wednesday	474
3/7/2019	Thursday	615
3/8/2019	Friday	487
3/9/2019	Saturday	0
3/10/2019	Sunday	0
3/11/2019	Monday	547
3/12/2019	Tuesday	652
3/13/2019	Wednesday	474
3/14/2019	Thursday	578
3/15/2019	Friday	598
3/16/2019	Saturday	0

3/17/2019	Sunday	0
3/18/2019	Monday	510
3/19/2019	Tuesday	499
3/20/2019	Wednesday	592
3/21/2019	Thursday	499
3/22/2019	Friday	437
3/23/2019	Saturday	0
3/24/2019	Sunday	0
3/25/2019	Monday	437
3/26/2019	Tuesday	481
3/27/2019	Wednesday	437
3/28/2019	Thursday	481
3/29/2019	Friday	437
3/30/2019	Saturday	364
3/31/2019	Sunday	0
4/1/2019	Monday	413
4/2/2019	Tuesday	475
4/3/2019	Wednesday	577
4/4/2019	Thursday	555
4/5/2019	Friday	413
4/6/2019	Saturday	0
4/7/2019	Sunday	0
4/8/2019	Monday	413
	•	536
4/9/2019	Tuesday	
4/10/2019 4/11/2010	Wednesday	431 457
4/11/2019 4/12/2010	Thursday	
4/12/2019	Friday	413
4/13/2019	Saturday	0
4/14/2019	Sunday	0
4/15/2019	Monday	456
4/16/2019	Tuesday	558
4/17/2019	Wednesday	426
4/18/2019	Thursday	570
4/19/2019	Friday	388
4/20/2019	Saturday	0
4/21/2019	Sunday	0
4/22/2019	Monday	426
4/23/2019	Tuesday	491
4/24/2019	Wednesday	426
4/25/2019	Thursday	491
4/26/2019	Friday	388
4/27/2019	Saturday	0
4/28/2019	Sunday	0
4/29/2019	Monday	426
4/30/2019	Tuesday	491
5/1/2019	Wednesday	410
5/2/2019	Thursday	456

5/3/2019	Friday	353
5/4/2019	Saturday	0
5/5/2019	Sunday	0
5/6/2019	Monday	391
5/7/2019	Tuesday	456
5/8/2019	Wednesday	391
5/9/2019	•	456
	Thursday	
5/10/2019	Friday	353
5/11/2019	Saturday	0
5/12/2019	Sunday	0
5/13/2019	Monday	391
5/14/2019	Tuesday	456
5/15/2019	Wednesday	391
5/16/2019	Thursday	358
5/17/2019	Friday	255
5/18/2019	Saturday	0
5/19/2019	Sunday	0
5/20/2019	Monday	
• •	•	293
5/21/2019	Tuesday	358
5/22/2019	Wednesday	293
5/23/2019	Thursday	358
5/24/2019	Friday	255
5/25/2019	Saturday	0
5/26/2019	Sunday	0
5/27/2019	Monday	293
5/28/2019	Tuesday	358
5/29/2019	Wednesday	293
5/30/2019	Thursday	358
5/31/2019	Friday	255
	•	
6/1/2019	Saturday	0
6/2/2019	Sunday	0
6/3/2019	Monday	125
6/4/2019	Tuesday	125
6/5/2019	Wednesday	125
6/6/2019	Thursday	125
6/7/2019	Friday	125
6/8/2019	Saturday	0
6/9/2019	Sunday	0
6/10/2019	Monday	200
6/11/2019	Tuesday	200
	•	
6/12/2019	Wednesday	200
6/13/2019	Thursday	200
6/14/2019	Friday	200
6/15/2019	Saturday	0
6/16/2019	Sunday	0
6/17/2019	Monday	200
6/18/2019	Tuesday	200

6/20/2019 Thursday 200 6/21/2019 Friday 200 6/22/2019 Saturday 0 6/23/2019 Sunday 0 6/24/2019 Monday 200 6/25/2019 Tuesday 200 6/25/2019 Tuesday 200 6/26/2019 Friday 200 6/28/2019 Friday 200 6/28/2019 Saturday 0 6/29/2019 Saturday 0 6/30/2019 Sunday 0 6/30/2019 Monday 200 7/1/2019 Tuesday 200 7/3/2019 Tuesday 200 7/3/2019 Thursday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/8/2019 Tuesday 200 7/12/2019 Tuesday 200 7/11/2019 Thursday 200 7/11/2019 Thursday 200 7/13/2019	6/19/2019	Wednesday	200
6/21/2019 Friday 200 6/22/2019 Saturday 0 6/23/2019 Sunday 0 6/24/2019 Monday 200 6/25/2019 Tuesday 200 6/26/2019 Wednesday 200 6/27/2019 Thursday 200 6/28/2019 Friday 200 6/28/2019 Saturday 0 6/30/2019 Sunday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/3/2019 Tuesday 200 7/3/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Tuesday 200 7/8/2019 Tuesday 200 7/10/2019 Tuesday 200 7/11/2019 Thursday 200 7/11/2019 <		•	
6/22/2019 Saturday 0 6/23/2019 Sunday 0 6/24/2019 Monday 200 6/25/2019 Tuesday 200 6/26/2019 Wednesday 200 6/27/2019 Thursday 200 6/28/2019 Friday 200 6/28/2019 Saturday 0 6/30/2019 Saturday 0 7/30/2019 Monday 200 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/8/2019 Monday 200 7/8/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/15/2019 Monday 200 7/15/2019		•	
6/23/2019 Sunday 0 6/24/2019 Monday 200 6/25/2019 Tuesday 200 6/26/2019 Wednesday 200 6/26/2019 Thursday 200 6/28/2019 Friday 200 6/29/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/1/2019 Tuesday 200 7/3/2019 Wednesday 200 7/3/2019 Tuesday 200 7/5/2019 Friday 200 7/5/2019 Friday 200 7/5/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Tuesday 200 7/8/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/11/2019 Thursday 0 7/15/2019 Tuesday 200 7/16/2019		•	
6/24/2019 Monday 200 6/25/2019 Tuesday 200 6/25/2019 Wednesday 200 6/27/2019 Thursday 200 6/28/2019 Friday 200 6/28/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/3/2019 Thursday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Saturday 0 7/8/2019 Sunday 0 7/8/2019 Tuesday 200 7/8/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/11/2019 Thursday 200 7/14/2019 Saturday 0 7/15/2019 Tuesday 200 7/18/2019 </td <td>•</td> <td>•</td> <td></td>	•	•	
6/25/2019 Tuesday 200 6/26/2019 Wednesday 200 6/27/2019 Thursday 200 6/28/2019 Friday 200 6/28/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/1/2019 Tuesday 200 7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/4/2019 Friday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/8/2019 Monday 200 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/11/2019 Thursday 200 7/14/2019 Friday 200 7/14/2019 Tuesday 0 7/14/2019 Tuesday 200 7/18/2019 <td></td> <td>•</td> <td>200</td>		•	200
6/26/2019 Wednesday 200 6/27/2019 Thursday 200 6/28/2019 Friday 200 6/29/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/5/2019 Friday 200 7/5/2019 Friday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/8/2019 Monday 200 7/8/2019 Tuesday 200 7/9/2019 Tuesday 200 7/11/2019 Wednesday 200 7/11/2019 Friday 200 7/12/2019 Friday 200 7/14/2019 Saturday 0 7/15/2019 Tuesday 200 7/18/2019 Thursday 200 7/18/2019		•	
6/27/2019 Thursday 200 6/28/2019 Friday 200 6/29/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Saturday 0 7/5/2019 Saturday 0 7/8/2019 Monday 200 7/8/2019 Tuesday 200 7/8/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/11/2019 Friday 200 7/14/2019 Saturday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/18/2019 Thursday 200 7/18/2019 Saturday 0 7/19/2019		•	
6/28/2019 Friday 200 6/29/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/3/2019 Thursday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/8/2019 Monday 200 7/8/2019 Monday 200 7/8/2019 Tuesday 200 7/10/2019 Tuesday 200 7/11/2019 Thursday 200 7/11/2019 Thursday 200 7/13/2019 Friday 200 7/13/2019 Saturday 0 7/15/2019 Monday 200 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/18/2019 Thursday 200 7/18/2019 Saturday 0 7/20/2019		•	200
6/29/2019 Saturday 0 6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/8/2019 Tuesday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/14/2019 Saturday 0 7/15/2019 Monday 200 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Friday 200 7/2019 Saturday 0 7/22/2019 Monday 200 7/22/2019 Monday 200		•	200
6/30/2019 Sunday 0 7/1/2019 Monday 200 7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/6/2019 Sunday 0 7/8/2019 Monday 200 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Friday 200 7/12/2019 Friday 200 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/17/2019 Wednesday 200 7/18/2019 Tuesday 200 7/18/2019 Friday 200 7/2019 Saturday 0 7/2019 Saturday 0 7/22/2019 Monday 200 7/24/2019 Tu		•	0
7/2/2019 Tuesday 200 7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/5/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/11/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/2019 Saturday 0 7/21/2019 Saturday 0 7/22/2019 Monday 200 7/24/2019 Tuesday 200 7/25/2019 Thursday 200 7/26/2019	6/30/2019	•	0
7/3/2019 Wednesday 200 7/4/2019 Thursday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/19/2019 Saturday 0 7/20/2019 Saturday 0 7/21/2019 Monday 200 7/24/2019 Monday 200 7/25/2019 Thursday 200 7/25/2019 <td>7/1/2019</td> <td>Monday</td> <td>200</td>	7/1/2019	Monday	200
7/4/2019 Thursday 200 7/5/2019 Friday 200 7/6/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20109 Saturday 0 7/21/2019 Monday 200 7/22/2019 Tuesday 200 7/24/2019 Thursday 200 7/25/2019 Thursday 200 7/26/2019	7/2/2019	Tuesday	200
7/5/2019 Friday 200 7/6/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/15/2019 Monday 200 7/18/2019 Tuesday 200 7/18/2019 Thursday 200 7/18/2019 Thursday 200 7/19/2019 Saturday 0 7/20/2019 Saturday 0 7/21/2019 Wednesday 200 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/27/2019 Saturday 0 7/28/2019 </td <td>7/3/2019</td> <td>Wednesday</td> <td>200</td>	7/3/2019	Wednesday	200
7/6/2019 Saturday 0 7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/18/2019 Friday 200 7/19/2019 Saturday 0 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/27/2019 Saturday 0 7/27/2019 Saturday 0 7/28/2019	7/4/2019	Thursday	200
7/7/2019 Sunday 0 7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Saturday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200	7/5/2019	Friday	200
7/8/2019 Monday 200 7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/15/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/27/2019 Saturday 0 7/28/2019 Friday 200 7/29/2019 Saturday 0 7/29/2019 Saturday 0 7/29/2019 Saturday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 2	7/6/2019	Saturday	0
7/9/2019 Tuesday 200 7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/15/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday	7/7/2019	Sunday	0
7/10/2019 Wednesday 200 7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday 200	7/8/2019	Monday	200
7/11/2019 Thursday 200 7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/28/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday 200	7/9/2019	Tuesday	200
7/12/2019 Friday 200 7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday 200	7/10/2019	Wednesday	200
7/13/2019 Saturday 0 7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/20/2019 Friday 200 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday 200	7/11/2019	Thursday	200
7/14/2019 Sunday 0 7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/20/2019 Friday 200 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total Wednesday 200	7/12/2019	Friday	200
7/15/2019 Monday 200 7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/25/2019 Thursday 200 7/25/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/13/2019	Saturday	0
7/16/2019 Tuesday 200 7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/20/2019 Friday 200 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/14/2019	Sunday	0
7/17/2019 Wednesday 200 7/18/2019 Thursday 200 7/20/2019 Friday 200 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/15/2019	Monday	200
7/18/2019 Thursday 200 7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Friday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/16/2019	Tuesday	200
7/19/2019 Friday 200 7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/17/2019	Wednesday	200
7/20/2019 Saturday 0 7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/18/2019	Thursday	200
7/21/2019 Sunday 0 7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/19/2019	Friday	200
7/22/2019 Monday 200 7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/20/2019	Saturday	0
7/23/2019 Tuesday 200 7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/21/2019	Sunday	0
7/24/2019 Wednesday 200 7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/22/2019	Monday	200
7/25/2019 Thursday 200 7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/23/2019	Tuesday	200
7/26/2019 Friday 200 7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/24/2019	Wednesday	200
7/27/2019 Saturday 0 7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/25/2019	Thursday	200
7/28/2019 Sunday 0 7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044	7/26/2019	Friday	200
7/29/2019 Monday 200 7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044		•	0
7/30/2019 Tuesday 200 7/31/2019 Wednesday 200 Yearly Total 106,044		•	•
7/31/2019 Wednesday 200 Yearly Total 106,044		•	
Yearly Total 106,044		•	
		Wednesday	
B 11 A	-		
Daily Average 290.5	Daily Average		290.5

Category 2: Community Users

Land Uses	Daily Vehicle Trips during HW Usage Days (218 days)	Daily Vehicle Trips during Non-HW Usage Days (147 days)
Community Use (Non-HW Use)	1,248	2,132
Total Daily Visitors (assuming 2 persons per vehicle)	272,064	313,404
Community Use Avg/Day for Year		
(excluding employees)		1,604
Total Persons		585,468

The trip generation estimate for community use is based on the ITE Trip Generation Manual for the Recreational Community Center land use (ITE Code 495). The academic year weekday vehicle trip estimate assumes that there is limited community use of the Project Site while Harvard-Westlake athletic activity occurs in the afternoon. The summer/weekend vehicle trip estimate assumes that community use occurs throughout the day. The daily visitors is derived by dividing the number of vehicle trips by 2 (since each vehicle makes one inbound and outbound trip) and then multiplying by an AVO of 2 passengers per vehicle. The AVO of 2 is consistent with data from the National Household Travel Survey (Federal Highway Administration, 2017) for social/recreational trips.

Category 3: Special Events (HW Only)			
	No. Days	No. People	Total
HW Special Events	3	2,000	6,000
	27	500	13,500
	30		19 500 nersons

Avg People Daily 650

Category 4: Public Events			
	No. Days	No. People	
Public Events	5	500	2,500 persons

Total Avg. People Daily: 1) HW Athletics + 2) Community Users + 3) HW Special Events + 4) Public Events

1,955

Calculated by adding all persons in each of the 4 categories over the year and dividing by 365 days