

**ADDENDUM TO THE
KROC COMMUNITY CENTER
ENVIRONMENTAL IMPACT REPORT
PREPARED FOR
PROPOSED IMPROVEMENTS TO CHITTICK FIELD**

**Prepared by:
Matrix Environmental**

**Prepared for:
City of Long Beach
Department of Development Services
Contact: Jill Griffiths, AICP
Planning Officer
(562) 570-6191**

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ADDENDUM TO THE KROC COMMUNITY CENTER ENVIRONMENTAL IMPACT REPORT PREPARED FOR PROPOSED IMPROVEMENTS TO CHITTICK FIELD

I. Introduction/Background

This document is an Addendum to the Environmental Impact Report (EIR) for the Kroc Community Center project (State Clearinghouse No. 2008071085), which was certified by the City of Long Beach (City) in June 2009 (Certified EIR). In accordance with the California Environmental Quality Act (CEQA), this Addendum analyzes proposed modifications to the Kroc Community Center project to determine whether such modifications would result in any new significant environmental impacts or a substantial increase in the severity of impacts set forth in the Certified EIR.

The Kroc Community Center project, approved by the City in 2009 (Approved Project), proposed the development of an approximately 12,455-square-foot chapel/auditorium building, a 73,910-square-foot administration/education building, and an 84,171-square-foot recreation center. The Approved Project also included an outdoor recreation area consisting of a 4-acre soccer field, 2 acres of gardens, play yards, and horticulture areas, as well as a 50-meter pool; a warm-up pool; a leisure pool with fountains, slides, and a children's area; and other amenities, including a playground, walking trails, an approximately 10,000-square-foot amphitheater, an outdoor climbing wall, a challenge course, and an exterior patio. These improvements were proposed within the existing 19-acre storm water dry detention basin known as Chittick Field (Project Site) owned by the Los Angeles County Department of Public Works Flood Control District.

Since certification of the EIR in 2009, plans for the Approved Project have been abandoned, and the Project, as proposed, would no longer be developed. With the intent of improving athletic facilities at Chittick Field for the surrounding community, the City of Long Beach has proposed a reduced and modified design for the site. The Project would include two youth soccer fields, one adult soccer field, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions (hereafter referred to as the Modified Project). Subsequent to the certification of the EIR, the Project site will

continue to be referred to as Chittick Field. A more detailed description of the Modified Project is provided below in Section III, Project Description.

II. CEQA Authority for an Addendum

CEQA Guidelines Section 15164 stipulates that an Addendum to a previously certified EIR may be prepared if some changes or additions are necessary and none of the conditions described in CEQA Guidelines Section 15162, requiring preparation of a Subsequent EIR, have occurred. The conditions requiring preparation of a Subsequent EIR focus on changes to a project or project circumstances that may result in new significant impacts or an increase in the severity of previously identified significant impacts. Specifically, CEQA Guidelines Section 15162 requires a Subsequent EIR when an EIR has been certified and one or more of the following circumstances exist:

1. Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
2. Substantial changes occur with respect to the circumstances under which the project is undertaken, which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
3. New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - b. Significant effects previously examined will be substantially more severe than shown in the previous EIR;
 - c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
 - d. Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Likewise, California Public Resources Code (PRC) Section 21166 states that unless one or more of the following events occur, no Subsequent or Supplemental EIR shall be required by the lead agency or by any responsible agency:

- Substantial changes are proposed in the project which will require major revisions of the environmental impact report;
- Substantial changes occur with respect to the circumstances under which the project is being undertaken which will require major revisions in the environmental impact report; or
- New information, which was not known and could not have been known at the time the environmental impact report was certified as complete, becomes available.

As demonstrated by the analysis herein, the proposed modifications to the Approved Project do not meet the requirements for preparation of a Subsequent EIR pursuant to CEQA Guidelines Section 15162. Specifically, the Modified Project would not result in any additional significant impacts, nor would it substantially increase the severity of previously anticipated significant impacts. Rather, all of the impacts associated with the Modified Project would be within the envelope of impacts addressed in the Certified EIR, and any potentially significant impacts would be mitigated to less than significant levels upon implementation of the same mitigation measures specified in the Certified EIR.

III. Project Description

A. Project Setting

The Project Site is located in the central part of the City of Long Beach on a site known as Chittick Field. The Chittick Field site, which operates as the Hamilton Bowl Detention Basin, is currently owned and operated by the Los Angeles County Department of Public Works Flood Control District. The Chittick Field site consists of approximately 19 acres of undeveloped land used as a flood control dry detention basin and as a National Pollution Discharge Elimination System (NPDES) compliance site for the City of Long Beach and the City of Signal Hill. The Project Site is also used as a general recreational area for seasonal sports by the surrounding community pursuant to a lease agreement with the County of Los Angeles. The roughly 19-acre loosely trapezoid-shaped land parcel is bounded by East 20th Street and the City of Signal Hill to the north, a 12-foot-wide alley between Rose Avenue and Gardenia Avenue to the east, commercial parcels fronting on East Pacific Coast Highway to the south, and Walnut Avenue to the west. Land uses adjacent to the Project Site include light industrial and institutional uses to the north, residential uses to the east, commercial uses to the immediate south, and Walnut Avenue

to the west, The Long Beach City College Pacific Coast Campus is located immediately west of Walnut Avenue. In addition, there is a privately owned caretaker's house located near the northwest corner and outside of the Project Site.

Within the Project Site, there is a structure for restrooms and two pump stations (Hamilton Bowl Pump Station and Low-Flow Pump Station) that provide drainage and discharge of water during storm events. Specifically, the restrooms and the Low-Flow Pump Station are located along the western border of the Project Site fronting Walnut Avenue. The Hamilton Bowl Pump Station is located along the southern edge of the Project Site and borders the commercial development fronting East Pacific Coast Highway.

B. Approved Project

The Approved Project included the development of a recreational facility within the existing Hamilton Bowl/Chittick Field site that included both indoor and outdoor components. Specifically, the Approved Project proposed the development of an approximately 12,455-square-foot chapel/auditorium building, an 84,171-square-foot recreation center, and a 73,910-square-foot administration/education building. The Approved Project also included an outdoor recreation area consisting of a 4-acre soccer field, 2 acres of gardens, play yards, and horticulture areas, as well as a 50-meter pool; a warm-up pool; a leisure pool with fountains, slides, and a children's area; and other amenities, including a playground, walking trails, an approximately 10,000-square-foot amphitheater, an outdoor climbing wall, a challenge course, and an exterior patio. In addition, the Approved Project proposed to provide approximately 1,100 parking spaces within one surface parking lot and in a two-level parking structure. Access to the Project Site was proposed via two driveways along Walnut Avenue and one driveway along Rose Avenue. In addition, an emergency-only access driveway was proposed along 19th Street that could also serve as a point of access to relieve traffic to and from the Project Site during special events. A conceptual site plan of the Approved Project is provided in Figure 1 on page 5.

The Approved Project also included approximately 12 acres of the existing Chittick Field site to continue to serve as a Flood Control Detention Basin for the City of Long Beach and the City of Signal Hill. Additionally, the Approved Project included the expansion of the Hamilton Bowl Pump Station and construction of a perimeter low-flow drainage system proposed to be located along Walnut Avenue and the basin's northern, eastern, and southern limits. This system was proposed to terminate at the location of the existing Hamilton Bowl Pump Station. In addition, the Approved Project included construction of a new low-flow pump station that would be below ground in the vicinity of the existing Hamilton Bowl Pump Station. The Approved Project also proposed reconstruction of the numerous storm drain outlets entering the detention basin and their

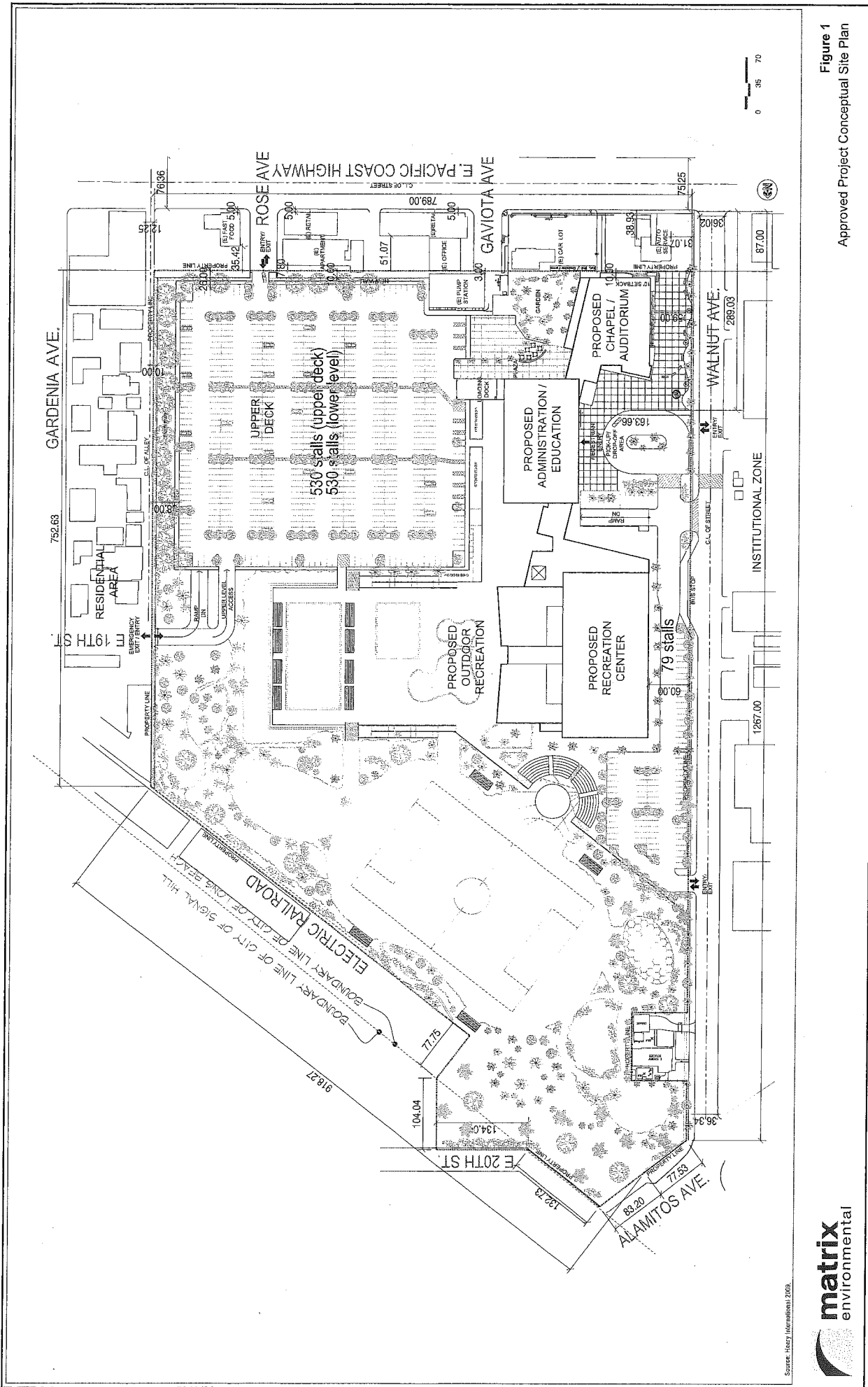


Figure 1
Approved Project Conceptual Site Plan

Source: Hery International, 2009.



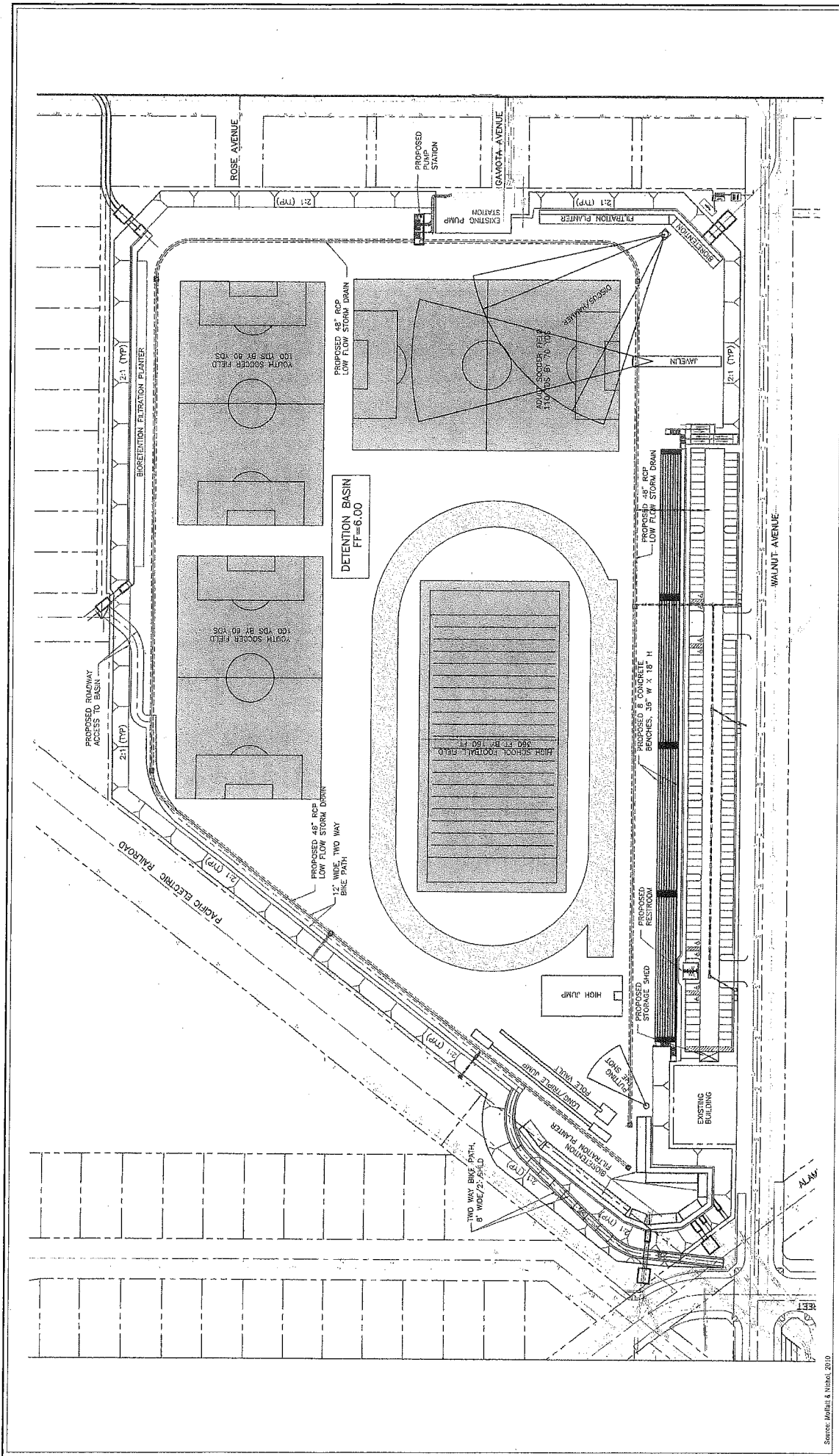
connections to the new low-flow drainage system. The new storm drain outlets were proposed to be fitted with debris-retention devices to capture and retain incoming stormwater conveyed debris. To allow for these improvements, all existing structures and facilities located on the Project Site were proposed to be removed, with the exception of the Hamilton Bowl Pump Station.

C. Modified Project

The Modified Project represents a reduction in the amount of development set forth for the Approved Project. The Modified Project focuses on outdoor recreation facilities and is proposed to include two youth soccer fields, one adult soccer field, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump training and competitions. As part of the Modified Project, the proposed athletic fields would be constructed with natural turf and associated irrigation would be installed. In addition, existing field pole lighting would be removed and replaced with new permanent lights to provide improved nighttime lighting of the proposed athletic fields. The existing chain link fence surrounding the Project Site also would be replaced with a new eight-foot high vinyl coated chain link fence. Additionally, a surface parking lot would be provided along Walnut Avenue to accommodate 128 vehicles plus eight handicap spaces. A 400-square foot restroom facility would also be provided. In addition, a bike path extending from Alamitos Avenue would be provided to connect the bike trail in the adjacent Pacific Electric right-of-way with Cherry Avenue. The portion of the bike path that would cross the Project Site along its northern boundary would be located within the Project Site, inside the new fence. Similar to the Approved Project, access to the Project Site would be provided via a driveway along Walnut Avenue, which would provide direct access to the proposed surface parking lot. A conceptual site plan of the Modified Project is provided in Figure 2 on page 7.

As with the Approved Project, the existing bowl that comprises much of the Project Site would be re-graded. In addition, similar to the Approved Project, all existing structures and facilities located on the Project Site would be removed, with the exception of the Hamilton Bowl Pump Station. Furthermore, as with the Approved Project, a low-flow drainage system and all required modifications and improvements to the existing Hamilton Bowl Pump Station and existing storm drains would also be constructed. As part of these improvements, various storm water treatment devices would also be implemented to meet current trash and bacteria reduction regulations.

Upon implementation of the Modified Project, the City of Long Beach would be responsible for operation and maintenance of all park-related facilities, structures, landscaping, and improvements. The Los Angeles County Department of Public Works



Source: McMillin & Nichol, 2010



Figure 2
Modified Project Conceptual Site Plan

Flood Control District would continue to maintain and operate the pump station and associated storm water facilities.

IV. Discretionary Actions

The Approved Project's entitlements included the approval of a General Plan Amendment to change the land use designation of the Project Site from LUD No. 11—Open Space and Park District to LUD No. 10—Institutional and School District and a Zone Change from Park (P) to Institutional (I). A Site Plan Review was also approved for the Project. The Modified Project will not require any additional discretionary entitlements.

V. Comparative Analysis of Modified Project Impacts

The analysis provided below provides a comparative analysis of the impacts of the Modified Project with those of the Approved Project as evaluated in the Certified EIR.

A. Aesthetics

1. Approved Project

(a) Scenic Vistas

As described in the Certified EIR, there are no designated scenic resources within the Project Site. The nearest designated scenic resource is Ocean Boulevard which is located approximately 1.2 miles south of the Project Site. In addition, the City of Long Beach and the California Department of Transportation do not designate any scenic vistas looking out from or looking onto the Project Site. Accordingly, the Certified EIR concluded that the Approved Project would not result in significant impacts to aesthetics associated with a scenic highway, scenic vistas, or scenic resources.

(b) Visual Character

The Project Site is currently used as a flood detention basin for the City of Long Beach and the City of Signal Hill. In this capacity, urban stormwater runoff collects in the Project Site's flood detention basin and is pumped to the Los Angeles River. When it is the dry season, the flood detention basin is used by local residents for recreation (primarily baseball and soccer). Some trash is filtered out and collected within the Project Site's existing pump plant; however, some litter remains on the Project Site. In addition, the Project Site does not undergo regular maintenance and collects debris that is carried in through storm drains, blown or carried onto the Project Site. As such, the Project Site currently offers few aesthetically enhancing features. Specifically, the view of the Project

Site from the surrounding uses is primarily of a dusty and dry 19-acre detention basin with sparse vegetation. Surrounding uses include a strip of commercial retail property along the southern edge of the Project Site, the Long Beach City College Pacific Coast Campus to the west of the Project Site, and residential uses east of the Project Site. These surrounding uses consist primarily of brick and stucco commercial and residential structures. The Long Beach City College Pacific Coast Campus consists of multi-story buildings of similar materials, parking lots, and limited ornamental landscaping in the form of small patches of grass and trees.

As analyzed in the Certified EIR, with implementation of the Approved Project, views of the Project Site would be enhanced compared to existing conditions and would be of a well-planned, landscaped community center. In addition, the materials and finishes that would be used would utilize both colors and designs that are consistent with structures in the neighboring community. The Approved Project would also be consistent in height and form with buildings located on the adjacent Long Beach City College Pacific Coast Campus. As such, the Approved Project would result in an aesthetic improvement compared to existing conditions. Notwithstanding, implementation of the Approved Project would involve removal of the Low-Flow Pump Station, which is considered a historic resource. Therefore, as evaluated in the Certified EIR, the Approved Project would have the potential to result in significant impacts to aesthetics related to the substantial degradation of the existing visual character of the Project Site and its surroundings associated with removal of a historic resource. As set forth in the Certified EIR, the Approved Project would implement Mitigation Measure Cultural-2 to reduce potentially significant aesthetics impacts to the extent feasible. However, as concluded in the Certified EIR, even with incorporation of Mitigation Measure Cultural-2, aesthetics impacts associated with removal of a historic resource would remain significant and unavoidable.

(c) Light and Glare

As set forth in the Certified EIR, existing sources of light in the vicinity of the Project Site include light from nearby homes, commercial uses, and the Long Beach City College–Pacific Coast Campus. In addition, within the Project Site, there are currently 17 field light fixtures of approximately 50 to 60 feet in height. As described in the Certified EIR, existing light and glare within and in the vicinity of the Project Site are typical of an urban landscape and of the surrounding neighborhood. In addition, while Approved Project lighting would introduce new lighting on the Project Site, the Approved Project would include the use of non-reflective and low-reflective materials and place lights at angles that would create the least amount of glare for the surrounding uses. Overall, based on the lighting proposed as part of the Approved Project, the Certified EIR concluded that the Approved Project would not result in significant impacts to aesthetics related to the creation of a new source of substantial light or glare in the area.

2. Modified Project

(a) Scenic Vistas

As development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR, similar to the Approved Project, significant impacts to scenic vistas or scenic resources would not occur under the Modified Project. As such, Modified Project impacts regarding scenic vistas would be within the envelope of impacts addressed in the Certified EIR.

(b) Visual Character

While the Modified Project has been reduced such that the majority of the Project components previously proposed would no longer be developed, as with the Approved Project, expanded and improved recreational facilities within a site that currently offers few aesthetically enhancing features would continue to be provided under the Modified Project. In particular, the Modified Project would provide two youth soccer fields, one adult soccer field, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions. In addition, the existing chain link fence surrounding the Project Site would be replaced with a new eight-foot high vinyl coated chain link fence. The existing pole lighting also would be replaced and upgraded to provide improved nighttime lighting of the athletic fields. In addition, a surface parking lot would be provided along Walnut Avenue to accommodate 128 vehicles plus 8 handicap spaces. Furthermore, a 400-square-foot restroom facility, a bike path, and improved landscaping would also be provided. Therefore, similar to the Approved Project, implementation of the Modified Project would result in an aesthetic improvement compared to existing conditions and would visually enhance the existing Project Site. However, as with the Approved Project, removal of the Low-Flow Pump Station is also proposed under the Modified Project. Thus, while the Modified Project would implement the same mitigation measure (Cultural-2) prescribed in the Certified EIR to reduce potentially significant impacts to aesthetics, impacts to the visual character of the Project Site associated with removal of a historic resource would be the same as those under the Approved Project and would remain significant and unavoidable. Therefore, Modified Project impacts regarding visual character would be within the envelope of impacts analyzed in the Certified EIR.

(c) Light and Glare

As most of the buildings proposed under the Approved Project would no longer be developed, light and glare effects from these uses would be eliminated under the Modified Project. In addition, the Modified Project would replace the existing 17 field light fixtures with 13 new field light fixtures including five (5) 100-foot-tall fixtures and eight (8)

80-foot-tall fixtures. These new light fixtures would be designed to meet the lighting standards of the U.S. Soccer Foundation and those set forth by the City of Long Beach. In addition, similar to the Approved Project, lighting would be directed onto the areas to be lit (e.g., athletic fields, pedestrian areas) and shielded to minimize light spillover effects. Specifically, the field lighting system is proposed to include industry-leading technology comprised of a reflector system and a visor system that would provide optimal energy efficiency and concentrate light on the athletic fields with minimal light spill. Overall, the field lights to be installed as part of the Modified Project would be more technologically advanced than the existing field lighting system and would include a lighting system that specifically addresses the needs of such development projects set in urban areas and surrounded by a variety of land uses. Therefore, similar to the Approved Project, the increase in ambient light at the Project Site from Modified Project lighting would not be substantial in the context of the surrounding area. Thus, as with the Approved Project, light and glare impacts under the Modified Project would be less than significant. As such, Modified Project impacts regarding light and glare would be within the envelope of impact set forth in the Certified EIR.

3. Mitigation Measures

A Mitigation Monitoring and Reporting Program (MMRP) was adopted for the Approved Project. The mitigation measure (Cultural-2) set forth in the MMRP included in the Certified EIR to address visual quality impacts associated with removal of a historic resource would also apply to the Modified Project. No additional mitigation measures are required for the development of the Modified Project as no new significant aesthetic impacts would result from implementation of the Modified Project. The mitigation measure (Cultural-2) identified in the Certified EIR to address historic resources impacts is provided below in Section E, Cultural Resources.

B. Agriculture Resources

1. Approved Project

As previously described, the Project Site is currently used as a stormwater detention basin and general recreational field for seasonal sports. No agricultural resources or activities are present on the Project Site. In addition, the City of Long Beach General Plan Land Use Element does not designate the Project Site as agriculture. Furthermore, based on the California Department of Conservation Farmland Mapping and Monitoring Program, there is no Farmland on or in the vicinity of the Project Site. Additionally, there is no agricultural land use zoned within the City of Long Beach's jurisdiction. Therefore, as concluded in the Certified EIR, the Approved Project would not result in significant impacts to agricultural resources.

2. Modified Project

As previously noted, development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR. As noted above, there are no existing or mapped agricultural resources within the Project Site. In addition, such uses are not proposed as part of the Modified Project. Therefore, as with the Approved Project, the Modified Project would not result in significant impacts to agricultural resources. Thus, impacts to agricultural resources under the Modified Project would be within the envelope of impacts addressed in the Certified EIR.

3. Mitigation Measures

As the Approved Project would not result in significant impacts to agricultural resources, no mitigation measures related to agricultural resources were required. As with the Approved Project, development of the Modified Project also would not result in significant impacts to agricultural resources, and, as such, no new mitigation measures are necessary under the Modified Project.

C. Air Quality and Climate Change

1. Approved Project

(a) Construction

As evaluated in the Certified EIR, construction emissions associated with the Approved Project's construction activities would not exceed the South Coast Air Quality Management District (SCAQMD) daily construction emission thresholds of significance for VOCs, CO, SO_x, PM₁₀, or PM_{2.5}. However, construction emissions would exceed the SCAQMD daily construction emission threshold of significance for NO_x. With incorporation of the mitigation measures prescribed in the Certified EIR, and listed below, PM₁₀ and PM_{2.5} emissions would be further reduced and NO_x emissions would be reduced to a less than significant level. Other potential air quality impacts associated with construction of the Approved Project, including toxic air contaminants and odor impacts, would be less than significant. Therefore, as concluded in the Certified EIR, air quality impacts associated with Approved Project construction activities would be less than significant with implementation of mitigation.

(b) Operation

As analyzed in the Certified EIR, the Approved Project would result in an increase in vehicular trips to the Project Site and, as such, would result in a corresponding increase of long-term air emissions at the Project Site from mobile sources. However, as provided in

the Certified EIR, daily operational emissions of CO, SO_x, NO_x, VOCs, PM₁₀, and PM_{2.5} would not exceed SCAQMD thresholds of significance. Thus, the Certified EIR concluded that regional and local air quality impacts associated with operation of the Approved Project would be less than significant. Other operational air quality impacts (i.e., toxic air contaminant and odors) also were determined to be less than significant.

(c) Global Climate Change

As set forth in the Certified EIR, the short-term nature of the construction duration and the typical nature of construction activities would not substantially increase global greenhouse gas emissions. In addition, based on the proposed use of the Project Site for recreational activities, the Approved Project also would not result in a considerable increase in greenhouse gas emissions during operation. Therefore, the Certified EIR concluded that the Approved Project would result in less than significant impacts to global climate change.

2. Modified Project

(a) Construction

As described above, the Approved Project has been reduced such that the majority of the buildings proposed, including the 12,455-square-foot chapel/auditorium building, the 73,910-square-foot administration/education building, and the 84,171-square-foot recreation center, would no longer be developed. Additionally, the Modified Project would not include construction of the 50-meter pool, warm-up pool, and leisure pool with fountains, slides, and a children's area, or the approximately 10,000-square-foot amphitheater. Rather, the Modified Project would include the development of three soccer fields, one regulation football field surrounded by a 400-meter all-weather track, and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions. While the Modified Project would disturb the same general area as that contemplated under the Approved Project, based on the proposed modifications, the amount of grading and export would be reduced due to the elimination of the buildings and pools. In addition, the amount of construction equipment and grading required on a peak day for the Modified Project would be less than that required under the Approved Project. Thus, overall construction activities and associated regional and localized construction emissions would be reduced under the Modified Project. Furthermore, the same construction-related air quality mitigation measures set forth in the Certified EIR would continue to be implemented with the Modified Project. Therefore, construction-related air quality impacts under the Modified Project would be reduced compared to the Approved Project and would continue to be less than significant with mitigation. As such, Modified Project construction-related air quality impacts would be within the envelope of the impact analysis addressed in the Certified EIR.

(b) Operation

Based on the reduction in development under the Modified Project, including the elimination of the 12,455-square-foot chapel/auditorium building, the 73,910-square-foot administration/education building, and the 84,171-square-foot recreation center, as well as the elimination of the pools, amphitheater, parking structure and surface parking lots previously proposed under the Approved Project, the Modified Project would result in a corresponding decrease in vehicular trips and, as such, would reduce emissions from these mobile sources. In addition, as the majority of the buildings would no longer be developed, the Modified Project would not result in an increase in stationary sources. Therefore, operational air quality impacts would be reduced under the Modified Project and would continue to be less than significant. As such, Modified Project operational air quality impacts would be within the envelope of the impact analysis addressed in the Certified EIR.

(c) Global Climate Change

As the majority of the buildings previously proposed under the Approved Project would no longer be developed, greenhouse gas emissions associated with the use of electricity, water heating, lighting, and any electrical appliances within these buildings would no longer be generated with the Modified Project. In addition, with the reduction in development, the mobile emissions would also be reduced under the Modified Project. Similarly, greenhouse gas emissions associated with construction activities would also be reduced. As such, the Modified Project would result in an overall reduction in greenhouse gas emissions compared to the Approved Project and impacts would continue to be less than significant under the Modified Project. Such impacts would be within the envelope of impacts set forth in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address air quality impacts remain applicable to the Modified Project. No additional mitigation measures are required for the development of the Modified Project as no new significant air quality impacts would result from implementation of the Modified Project.

Mitigation Measure Air-1: Water or a stabilizing agent that will not cause or contribute to water pollution shall be applied to exposed surfaces in sufficient quantity two times a day to prevent generation of dust plumes. Soil moistening shall be required to treat exposed soil during construction of each element of the project to avoid fugitive dust emissions, ensure compliance with current air quality standards, and avoid contributions to cumulative increases in criteria pollutants. Prior to the issuance of permits for each phase of the project, the

applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications submitted for review include the requirement for the construction contractor to ensure that soil shall be moistened not more than 15 minutes prior to the daily commencement of soil-moving activities and three times a day, or four times a day under windy conditions, in order to maintain a soil moisture content of 12 percent. The applicant shall demonstrate compliance with this measure through the submission of weekly monitoring reports to the City of Long Beach Department of Development Services. At a minimum, active operations shall utilize one or more of the applicable best available control measures to minimize fugitive dust emissions from each fugitive dust source type that is part of the active operation.

Mitigation Measure Air-2: Moistening or covering of excavated soil piles shall be required to treat grading areas during construction of the project to avoid fugitive dust emissions, ensure compliance with current air quality standards, and avoid contributions to cumulative increases in critical pollutants. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to ensure that excavated soil piles are watered hourly for the duration of construction or covered with temporary coverings.

Mitigation Measure Air-3: Discontinuing construction activities that occur on unpaved surfaces during windy conditions shall be required to avoid fugitive dust emissions, ensure compliance with current air quality standards, and avoid contributions to cumulative increases in critical pollutants. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to cease construction activities that occur on unpaved surfaces during periods when winds exceed 25 miles per hour.

Mitigation Measure Air-4: A wheel washing system shall be installed and used to remove bulk material from tires and vehicle undercarriages before vehicles exit the project site. Washing of wheels leaving the construction site during construction of each phase of the project shall be required to avoid fugitive dust emissions, ensure compliance with current air quality standards, and avoid contributions to cumulative increases in criteria pollutants. Water used for wheel washing will be filtered to remove fine sediment before release to the storm drain system. Prior to the issuance of permits for each phase

of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to clean adjacent streets of tracked dirt at the end of each workday or install on-site wheel-washing facilities.

Mitigation Measure Air-5: Track out shall not extend 25 feet or more from an active operation, and track out shall be removed at the conclusion of each workday. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to ensure that the track out shall not extend 25 feet or more from an active operation and that it would be removed at the conclusion of each workday.

Mitigation Measure Air-6: All trucks hauling soil, sand, and other loose materials on site or through neighboring streets shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions). All transport of soils to and from the project site for each phase of the project shall be conducted in a manner that avoids fugitive dust emissions, ensures compliance with current air quality standards, and avoids contributions to cumulative increases in criteria pollutants. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to cover all loads of dirt leaving the site or to leave sufficient freeboard capacity in the truck to prevent fugitive dust emissions en route to the disposal site.

Mitigation Measure Air-7: Traffic speeds on unpaved roads shall be limited to 15 miles per hour. Prior to issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to ensure a traffic speed limited to 15 miles per hour.

Mitigation Measure Air-8: Heavy-equipment operations shall be suspended during first- and second-stage smog alerts. Prior to issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications for each phase of the project include the requirement for the construction contractor to ensure heavy equipment operations be suspended during first and second stage smog alerts.

Mitigation Measure Air-9: In order to mitigate the air quality impact caused by NO_x emissions from construction equipment, all construction equipment not expected to be used for a period in excess of 5 minutes shall be turned off as a means of reducing NO_x emissions to the maximum extent practicable. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications require the construction contractor to shut off engines when not in use. Specifications shall require the construction contractor to certify monthly to the Department of Development Services that construction equipment is being maintained in peak operating condition.

Mitigation Measure Air-10: In order to mitigate the air quality impact caused by NO_x emissions from construction equipment, all off-road diesel construction equipment shall use particulate filters. The applicant shall also ensure that cooled, exhaust gas recirculation devices are installed on all off-road diesel equipment where feasible. Prior to the issuance of permits for each phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications require the construction contractor to use particulate filters on all off-road diesel equipment and install cooled, exhaust gas recirculation devices on all off-road diesel equipment where feasible.

D. Biological Resources

1. Approved Project

As described in the Certified EIR, the Project Site does not contain state-designated sensitive habitats; rare, threatened, or endangered species; sensitive species designated as Species of Special Concern by the California Department of Fish and Game; or federally protected wetlands. In addition, while the Certified EIR determined that the Approved Project would not result in significant impacts to locally important butterfly species, the planting of suitable host plants into the landscaped areas of the Project Site was proposed to support the locally important butterfly species. Furthermore, as the Project Site is located in an urban setting isolated from wildlife corridors, impacts to biological resources in relation to movement of any wildlife species or within an established wildlife corridor would not occur. Finally, as the Project Site is not located within a Habitat Conservation Plan or Natural Community Conservation Plan, impacts to biological resources related to conflicts with the provisions of such plans would not occur. Therefore, as concluded in the Certified EIR, the Approved Project would not result in significant impacts to biological resources.

2. Modified Project

As previously noted, development of the Modified Project would occur within the same Project Site and under the same general conditions as evaluated in the Certified EIR, and as such, like the Approved Project, would not result in significant impacts to sensitive species and natural habitats, wetland areas, or wildlife corridors and nursery sites. In addition, as with the Approved Project, the Modified Project would not significantly conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Furthermore, to the extent feasible, the Modified Project would implement similar landscaping as that proposed under the Approved Project. Therefore, as with the Approved Project, the Modified Project would not result in significant impacts to biological resources. As such, Modified Project impacts to biological resources would be within the envelope of impacts addressed in the Certified EIR.

3. Mitigation Measures

As the Approved Project would not result in significant impacts to biological resources, no mitigation measures related to biological resources were required. As with the Approved Project, development of the Modified Project also would not result in significant impacts to biological resources, and, as such, no new mitigation measures are necessary under the Modified Project.

E. Cultural Resources

1. Approved Project

(a) Paleontological Resources

As evaluated in the Certified EIR, the Project Site is located within an area underlain by older Quaternary terrace deposits, which are considered to have high sensitivity for paleontological resources. While the precise depth of these older Quaternary terrace deposits within the Project Site is unknown, they are likely on or near the surface of the Project Site. Therefore, implementation of the Approved Project would likely require excavations into these older Quaternary terrace deposits and result in significant impacts to cultural resources from the potential destruction of a paleontological resource. However, as concluded in the Certified EIR, with implementation of Mitigation Measure Cultural-1, potential impacts to paleontological resources would be reduced to a less than significant level.

(b) Archaeological Resources

As set forth in the Certified EIR, based on consultation with the Native American Heritage Commission, no Native American cultural resources have been identified within the Project Site. In addition, a review of survey data collected and evaluated indicated that one archaeological resource has been identified within the local area, approximately 0.5 mile north of the Project Site. Furthermore, as the Project Site has been subject to disturbance due to grading and development activities in the past, it is unlikely that any archaeological resources would be present within the Project Site. Therefore, the Certified EIR determined that the Approved Project would not result in significant impacts to cultural resources associated with a substantial adverse change in the significance of a prehistoric archaeological resource. Nonetheless, in accordance with regulatory requirements, if a unique archaeological resource were discovered, work in the area would cease and such resources would be treated in accordance with federal, state, and local regulations and guidelines.

(c) Historical Resources

As evaluated in the Certified EIR, the Low-Flow Pump Station, located at the western edge of the Project Site along Walnut Avenue, is considered a historic resource as defined by CEQA [PRC 5024.1, 14 California Code of Regulations Section 4850(d)(1)]. To allow for implementation of the improvements proposed by the Approved Project, all existing structures and facilities, including the Low-Flow Pump Station and excluding the Hamilton Bowl Pump Station, were proposed to be removed. As such, the Approved Project would result in significant impacts to cultural resources associated with removal of a historic resource. To address this significant impact, the Certified EIR included Mitigation Measure Cultural-2, which called for the archival documentation of the Low-Flow Pump Station, including photographic recordation; a detailed historic narrative report that includes description, history, and statement of significance; measured architectural drawings; and a compilation of historic research. However, the Certified EIR determined that while implementation of Mitigation Measure Cultural-2 would reduce impacts to cultural resources associated with removal of a historic resource to the extent practicable, impacts would remain significant and unavoidable.

(d) Human Remains

As set forth in the Certified EIR, the results of the archaeological records search, review of historic maps, the Native American Heritage Commission Sacred Lands File search, and the intensive level historical resources survey indicated that no historic period or Native American burial grounds are located within or in proximity to the Project Site. Notwithstanding, while there are no known burial sites within the Project Site, the Certified EIR determined that the Approved Project may result in the potential discovery or

disruption of unknown human remains during ground-disturbing activities. As such, the Approved Project could result in a significant impact with regard to the potential discovery or disruption of human remains. However, as concluded in the Certified EIR, with implementation of Mitigation Measure Cultural-3, potential impacts would be reduced to a less than significant level.

2. Modified Project

(a) Paleontological Resources

As previously noted, development of the Modified Project would occur within the same site and under the same general conditions as evaluated in the Certified EIR. Therefore, while the Modified Project would reduce the depth of excavation due to elimination of the pools previously proposed under the Approved Project, similar to the Approved Project, the Modified Project may require excavations into the older Quaternary terrace deposits that underlay the Project Site, which are considered to have high sensitivity for paleontological resources and are likely on or near the surface of the Project Site. However, the Modified Project would implement the same mitigation measure (Cultural-1) regarding the discovery of paleontological resources as set forth in the Certified EIR. Thus, as with the Approved Project, with implementation of Mitigation Measure Cultural-1, potential impacts to paleontological resources would be less than significant under the Modified Project. Such impacts would be within the envelope of impacts addressed in the Certified EIR.

(b) Archaeological Resources

As the Modified Project proposes to disturb the same general area as that contemplated under the Approved Project, impacts regarding archaeological resources would be similar to those of the Approved Project. Therefore, as with the Approved Project, with compliance with existing regulatory requirements, impacts associated with the potential for discovering archaeological resources would be less than significant under the Modified Project. Such impacts would be within the envelope of impact analysis set forth in the Certified EIR.

(c) Historical Resources

As with the Approved Project, the Modified Project proposes removal of the historic Low-Flow Pump Station. As such, similar to the Approved Project, the Modified Project would result in significant impacts to cultural resources associated with removal of a historic resource. As with the Approved Project, the Modified Project would implement the same mitigation measure (Cultural-2) prescribed in the Certified EIR to reduce impacts to a historical resource. However, similar to the Approved Project, impacts to historical

resources would remain significant and unavoidable under the Modified Project. As such, Modified Project impacts to historic resources would be within the envelope of impacts addressed in the Certified EIR.

(d) Human Remains

While there are no known burial sites within the Project Site, as with the Approved Project, implementation of the Modified Project has the potential to result in the potential discovery or disruption of unknown human remains during ground-disturbing activities. Therefore, as with the Approved Project, the Modified Project may result in a significant impact with regard to the potential discovery or disruption of human remains. However, as with the Approved Project, with implementation of the recommended mitigation set forth in the Certified EIR (Cultural-3), impacts would be reduced to a less than significant level under the Modified Project. Such impacts would be within the envelope of impacts set forth in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address impacts to cultural resources remain applicable to the Modified Project. No additional mitigation measures are required for the development of the Modified Project as no new significant impacts to cultural resources would result from implementation of the Modified Project.

Mitigation Measure Cultural-1: The impacts to cultural resources related directly or indirectly to the destruction of a unique paleontological resource from the project shall be reduced to below the level of significance through the salvage and disposition of paleontological resources that result from all earthmoving activities involving disturbances of the older Quaternary terrace deposits. Ground-disturbing activities include, but are not limited to, drilling, excavation, trenching, and grading. If paleontological resources are encountered during ground-disturbing activities, the applicant, under the direction of the City of Long Beach Department of Development Services, shall be required to and be responsible for salvage and recovery of those resources consistent with standards for such recovery established by the Society of Vertebrate Paleontology. Because the precise depth of strata considered highly sensitive for paleontological resources is unknown, the applicant, under the direction of the City of Long Beach Department of Development Services, shall be responsible for and shall ensure implementation of construction monitoring by a qualified paleontological monitor during all earthmoving activities that involve disturbance of native soil (i.e., soil that has not been artificially

introduced and has not accumulated through Hamilton Bowl's function as a flood control basin). The paleontological monitor shall coordinate a pre-construction briefing to provide information regarding the protection of paleontological resources. Construction personnel shall be trained in procedures to be followed in the event that a fossil site or fossil occurrence is encountered during construction. An information package shall be provided for construction personnel not present at the initial pre-construction briefing. Should a potentially unique paleontological resource be encountered, a qualified paleontologist shall be contacted and retained by the City of Long Beach. The Society for Vertebrate Paleontology defines a qualified paleontologist as "A practicing scientist who is recognized in the paleontologic community and is proficient in vertebrate paleontology, as demonstrated by:

1. Institutional affiliations or appropriate credentials,
2. Ability to recognize and recover vertebrate fossils in the field,
3. Local geological and biostratigraphic expertise,
4. Proficiency in identifying vertebrate fossils, and
5. Publications in scientific journals."

If fossil localities are discovered, the paleontologist shall proceed according to guidelines offered by the Society for Vertebrate Paleontology. This includes the controlled collection of fossil and geologic samples for processing, screen washing to recover small specimens (if applicable), and specimen preparation to a point of stabilization and identification. All significant specimens collected shall be appropriately prepared, identified, and catalogued prior to their placement in a permanent accredited repository, such as the Natural History Museum of Los Angeles County. The qualified paleontologist shall be required to secure a written agreement with a recognized repository, regarding the final disposition, permanent storage, and maintenance of any significant fossil remains and associated specimen data and corresponding geologic and geographic site data that might be recovered as a result of the specified monitoring program. The written agreement shall specify the level of treatment (e.g., preparation, identification, curation, and cataloguing) required before the fossil collection would be accepted for storage. In addition, a technical report shall be completed. If the fossil collection is unable to be placed in an accredited repository, the collection may be donated by the City of Long Beach Department of Development Services to local schools for educational purposes.

Daily logs shall be kept by the qualified paleontological monitor during all monitoring activities. The daily monitoring log shall be keyed to a location map to indicate the area monitored, the date, and

the assigned personnel. In addition, this log shall include information of the type of rock encountered, fossil specimens recovered, and associated specimen data. Within 90 days of the completion of any salvage operation or monitoring activities, a mitigation report shall be submitted to the Historic Preservation Office/Officer for the City of Long Beach with an appended, itemized inventory of the specimens. The report and inventory, when submitted to the City of Long Beach Department of Development Services, will signify the completion of the program to mitigate impacts to paleontological resources. Completion of this mitigation measure shall be monitored and enforced by the City of Long Beach Department of Development Services.

Mitigation Measure Cultural-2: Impacts related to the loss of an historical resource, the Low-Flow Pump Station, shall be reduced through archival documentation of as-found conditions. Prior to issuance of demolition permits, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that documentation of the Low-Flow Pump Station is completed by the applicant in the form of a Historic American Buildings Survey that shall comply with the Secretary of the Interior's Standards for Architectural and Engineering Documentation. The documentation shall include large-format photographic recordation; a detailed historic narrative report including description, history, and statement of significance; measured architectural drawings (as built and/or current conditions); and a compilation of historic research. The documentation shall be completed by a qualified architectural historian or historian who meets the Secretary of the Interior's Professional Qualification Standards for History and/or Architectural History. The original archival-quality documentation shall be offered as donated material to the National Park Service Heritage Documentation Program, Historic American Buildings Survey, for inclusion in the Library of Congress. Archival copies of the documentation also would be submitted to the Long Beach Public Library; the Historical Society of Long Beach; California State University, Long Beach; the Office of Historic Preservation; and the South Central Coastal Information Center where it would be available to local researchers. Completion of this mitigation measure shall be monitored and enforced by the City of Long Beach Department of Development Services.

Mitigation Measure Cultural-3: Although the discovery of human remains is not anticipated during ground-disturbing activities for the project, a process has been delineated by the State of California for addressing the unanticipated discovery of human remains:

Unanticipated Discovery of Human Remains (Public Resources Code 5097): The Los Angeles County Coroner shall be notified within

24 hours of the discovery of human remains. Upon discovery of human remains, there shall be no further excavation or disturbance of the site or any of that area reasonably suspected to overlie adjacent human remains until the following conditions are met:

- The Los Angeles County Coroner has determined that no investigation of the cause of death is required, and
- If the remains are of Native American origin, the descendants from the deceased Native Americans have made a recommendation to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.

F. Geology and Soils

1. Approved Project

As discussed in the Certified EIR, though the Project Site is not located within an Alquist-Priolo Earthquake Fault Zone, the Cherry Hill segment of the Newport-Inglewood fault zone is located approximately 0.2 mile southwest of the Project Site. If a surface fault rupture were to occur within this fault zone, potentially significant impacts could result at the Project Site. In addition, as with most of southern California, the Approved Project could potentially result in seismic-related impacts associated with strong ground shaking. However, with compliance with the California Building Code, Uniform Building Code, City General Plan Seismic Safety Element, Long Beach Municipal Code, and recommended mitigation measures to ensure that adequate structural protection would be provided, impacts from a potential fault rupture at the nearby Cherry Hill segment and strong seismic ground shaking would be less than significant. Other geologic hazards impacts (i.e., liquefaction, landslides, soil erosion, soil stability, and expansive soils) were determined to be less than significant.

2. Modified Project

As previously described, development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR. Therefore, the Modified Project would be subject to the same geologic hazards as that of the Approved Project. However, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Approved Project's impacts associated with the potential for fault rupture and strong ground shaking would be reduced under the Modified Project. In addition, all of the mitigation measures related to geology and soils set forth in the Certified EIR would also be implemented under the Modified Project. Thus, potential impacts associated with geology

and soils under the Modified Project would be further reduced and would be less than significant. As such, impacts associated with geology and soils under the Modified Project would be within the envelope of the impact analysis provided in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address impacts associated with geology and soils remain applicable to the Modified Project. No additional mitigation measures are required for development of the Modified Project as no new significant impacts regarding geology and soils would result from implementation of the Modified Project.

Mitigation Measure Geology-1: Exposure of people or property to potentially adverse effects, including the risk of loss or injury, involving surface fault rupture from the operation of the project, shall be minimized through the applicant's compliance with the City of Long Beach General Plan, California Building Code, Long Beach Municipal Code, and Uniform Building Code.

Mitigation Measure Geology-2: Exposure of people or property to potentially adverse effects, including the risk of loss or injury, involving seismic ground shaking from the operation of the project, shall be minimized through conformance with California Geological Survey's Guidelines for Evaluating and Mitigating Seismic Hazards in California and all applicable City of Long Beach codes and regulations related to seismic activity. The applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the site-specific geotechnical investigations for the project are incorporated into the project plans and specifications. The City of Long Beach Department of Development Services shall review and ensure that all recommendations of the site-specific geotechnical recommendations are incorporated into the final plans and specifications.

Mitigation Measure Geology-3: The applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that best management practices implemented for the project are consistent with the National Pollution Discharge Elimination System Permit No. CAS 004003 to avoid soil erosion during construction of the project. Prior to approval of final plans and specifications, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the requirement to comply with National Pollution Discharge Elimination System Permit No. CAS 004003 is included in the specifications. The City of Long Beach Department of Development Services shall monitor

construction to ensure compliance with National Pollution Discharge Elimination System Permit No. CAS 004003.

G. Hazards and Hazardous Materials

1. Approved Project

As set forth in the Certified EIR, potential impacts from the routine use, transport, and disposal of small quantities of hazardous substances or materials during construction and operation of the Approved Project would be less than significant with compliance with applicable laws and regulations, manufacturer's instructions, and recommended mitigation measures. In addition, with compliance with Federal Aviation Administration requirements and other applicable rules and regulations as well as incorporation of recommended mitigation measures, potential impacts associated with the Project Site located in the vicinity of an airport land use plan, a public airport, or a public-use airport would be less than significant. Furthermore, though the Project Site is located on a hazardous materials site, no significant concentrations of potentially hazardous substances were found on the Project Site and impacts regarding this issue were determined to be less than significant. Additionally, the Approved Project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. In addition, based on the Project Site's location with an urbanized setting, no impacts regarding wildland fires would occur. Furthermore, as development of the Project Site would adhere to the City's emergency response plan and directive, no significant impacts to the City's emergency response plan or the emergency evacuation plan would occur.

2. Modified Project

As development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR, the Modified Project would be subject to the same hazards as that of the Approved Project. However, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Approved Project's hazards and hazardous materials impacts would be reduced under the Modified Project. The amount of grading for new structures would also be reduced under the Modified Project. In addition, all of the mitigation measures regarding hazards and hazardous materials set forth in the Certified EIR would also be implemented under the Modified Project. Thus, as with the Approved Project, potential hazards impacts under the Modified Project would be less than significant with implementation of mitigation measures and regulatory requirements. As such, impacts associated with hazards and hazardous materials under the Modified Project would be within the envelope of impacts addressed in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address impacts associated with hazards and hazardous materials remain applicable to the Modified Project. No additional mitigation measures are required for development of the Modified Project as no new significant impacts regarding hazards and hazardous materials would result from implementation of the Modified Project.

Mitigation Measure Hazards-1: To reduce impacts related to routine transport, use, or disposal of hazardous materials during construction, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that all contractors transport, store, and handle construction-required hazardous materials in a manner consistent with relevant regulations and guidelines, including those recommended by the California Department of Transportation; the California Regional Water Quality Control Board, Los Angeles Region; the Los Angeles County Municipal Storm Water Permit (National Pollutant Discharge Elimination System Permit No. CAS004003, Board Order No. 99-060; County of Los Angeles MS4 Permit); and the County of Los Angeles Fire Department. These agencies shall regulate through the permitting process the monitoring and enforcement of this mitigation measure as required by law. Standard personal protective equipment shall be worn during construction operations where warranted.

Mitigation Measure Hazards-2: To reduce impacts related to routine transport, use, or disposal of hazardous materials during construction, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that all contractors immediately control the source of any unauthorized release of hazardous materials using appropriate release containment measures, and remediate any unauthorized release using the methodologies mandated by the City of Long Beach throughout the construction period. The City of Long Beach shall monitor and enforce regulations pertaining to the containment, disposal, and unauthorized release of hazardous materials. Engineering and administrative controls shall be utilized to reduce the potential of accidental releases from hazardous materials during the construction phase.

Mitigation Measure Hazards-3: To reduce impacts related to routine transport, use, or disposal of hazardous materials, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that all contractors are adhering to the appropriate regulations established by the South Coast Air Quality

Management District, the Department of Toxic Substances Control, and other relevant guidelines regarding the release of hazardous emissions into the atmosphere and the off-site disposal of contaminated soils throughout the construction period. Engineering and administrative controls shall be utilized to reduce the potential of accidental releases from hazardous materials during the construction phase as well as during normal working hours.

Mitigation Measure Hazards-4: The applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that all contractors adhere to all federal, state, and local requirements in a manner consistent with relevant public safety regulations and guidelines. Engineering and administrative controls and reporting procedures shall be used to reduce the potential of accidental releases.

H. Hydrology and Water Quality

1. Approved Project

(a) Drainage

As described in the Certified EIR, upgrades to the existing drainage infrastructure of the Hamilton Bowl Detention Basin were proposed to improve drainage from the Project Site and to alleviate any erosion or siltation due to the implementation of the Approved Project. Therefore, as concluded in the Certified EIR, with implementation of the proposed drainage infrastructure improvements, impacts to hydrology and water quality in relation to exceeding the capacity of existing or planned stormwater drainage systems or providing additional sources of polluted runoff would be less than significant.

(b) Surface Water Quality

As set forth in the Certified EIR, construction activities associated with the Approved Project could contribute to pollutant loading in stormwater runoff. These pollutants may affect water quality if they are washed off-site by stormwater or non-stormwater, or are blown or tracked off-site to areas susceptible to wash-off by stormwater or non-stormwater. As such, the Certified EIR determined that the Approved Project may result in potentially significant impacts to water quality during construction. However, as concluded in the Certified EIR, with implementation of Mitigation Measures H-1 through H-3, impacts would be reduced to a less than significant level.

(c) Groundwater

As analyzed in the Certified EIR, development of the Approved Project would result in a decrease in pervious surfaces, which may result in a corresponding decrease in the amount of groundwater recharge. However, as described in the Certified EIR, the Project Site is not a designated recharge facility for a groundwater basin. Thus, the Certified EIR determined that implementation of the Approved Project would not substantially deplete groundwater supplies, interfere with groundwater recharge, or utilize groundwater supplies. In addition, the Approved Project included sustainable design elements to ensure that implementation of the Approved Project would not significantly impact groundwater supplies or recharge at the Project Site. As such, Approved Project impacts to groundwater were concluded to be less than significant.

(d) Flooding, Seiche, Tsunami, and Mudflows

As described in the Certified EIR, the Project Site is located within Zone X, which is a moderate to low risk flood zone area. In addition, as a detention basin, the Project Site is designed to maintain the flood protection for a 50-year storm event. Furthermore, with implementation of the recommended drainage improvements included in the Certified EIR, the potential for a storm event to exceed the drainage capacity of the Project Site would be reduced. Additionally, based on the distance of the Project Site from the Pacific Ocean, tsunamis do not pose a threat to the Project Site or vicinity. Finally, the low relief in the Project area does not contribute to the potential for landslides that would result in mudflows. As such, the Certified EIR concluded that the Approved Project would not result in significant impacts due to flooding, seiche, tsunamis, or mudflows.

2. Modified Project

(a) Drainage

As described above in Section III, Project Description, the Modified Project would implement the same drainage infrastructure improvements proposed under the Approved Project. Therefore, similar to the Approved Project, with implementation of the proposed drainage infrastructure improvements, on-site drainage infrastructure would also be improved under the Modified Project. In addition, as with the Approved Project, the proposed drainage infrastructure improvements would serve to accommodate any increase in runoff associated with development of the Project Site. Furthermore, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Approved Project's drainage impacts associated with increased runoff would be reduced under the Modified Project. Thus, as with the Approved Project, impacts to hydrology and water quality relative to exceeding the capacity of existing or planned stormwater drainage systems or providing additional sources of polluted runoff

would be less than significant. As such, Modified Project drainage impacts would be within the envelope of impacts addressed in the Certified EIR.

(b) Surface Water Quality

As previously described, the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project. Accordingly, construction activities under the Modified Project would be reduced. Therefore, as the Modified Project would include reduced construction activities, the Approved Project's surface water quality impacts during construction would be reduced under the Modified Project. Additionally, the Modified Project would incorporate the same mitigation measures prescribed in the Certified EIR to reduce potential impacts to surface water quality during construction. Thus, as with the Approved Project, impacts to surface water quality would be less than significant with implementation of mitigation measures. As such, impacts to surface water quality under the Modified Project would be within the envelope of impacts provided in the Certified EIR.

(c) Groundwater

Similar to the Approved Project, implementation of the Modified Project would result in a decrease in permeable surfaces. However, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the amount of impervious surfaces would be reduced and the Approved Project's potential groundwater impacts would be reduced under the Modified Project. In addition, as described above, the Project Site is not a designated recharge facility for a groundwater basin. Thus, as with the Approved Project, the Modified Project would not substantially deplete groundwater supplies, interfere with groundwater recharge, or utilize groundwater supplies. In addition, to the extent feasible, the Modified Project would implement similar sustainable design elements as proposed under the Approved Project to ensure that the Modified Project would not significantly impact groundwater supplies or recharge at the Project Site. As such, impacts to groundwater under the Modified Project would be within the envelope of impacts set forth in the Certified EIR.

(d) Flooding, Seiche, Tsunami, and Mudflows

As development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR, the Modified Project would be subject to the same hydrologic hazards as that of the Approved Project. Therefore, as with the Approved Project, impacts associated with the potential for flooding, seiche, tsunami, or mudflows would be less than significant. In addition, proposed drainage improvements set forth in the Certified EIR would also be implemented under the Modified Project and on-site drainage systems would comply with regulatory requirements.

As such, impacts from the potential for hydrologic hazards under the Modified Project would be within the envelope of the impact analysis provided in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address impacts to hydrology and water quality remain applicable to the Modified Project. No additional mitigation measures are required for development of the Modified Project as no new significant impacts to hydrology and water quality would result from implementation of the Modified Project.

Mitigation Measure Hydrology-1: In order to mitigate impacts related to surface water quality caused by construction at the project site to below the level of significance, the City of Long Beach Department of Development Services shall require the construction contractor to implement best management practices consistent with National Pollutant Discharge Elimination System Permit No. CAS 004003 prior to completion of final plans and specifications. The construction contractor for each construction phase shall be required to submit a Storm Water Pollution Prevention Plan to the City of Long Beach for review and approval at least 30 days prior to the anticipated need for a grading permit. The applicant shall complete a water quality assessment prior to the issuance of permits. The City of Long Beach Department of Development Services shall monitor construction to ensure compliance with National Pollutant Discharge Elimination System Permit No. CAS 004003. Such compliance measures would, at a minimum, include preparation and implementation of a local Storm Water Quality Management Plan and a wet Season Erosion Control Plan (for work between October 15 and April 15). These plans shall incorporate all applicable best management practices described in the California Storm Water Best Management Practice Handbook, Construction Activity into the construction phase of the project. Prior to construction, temporary measures must be implemented in order to prevent transport of pollutants of concern from the construction site to the storm drainage system. The best management practices should apply to both the actual work areas as well as contractor staging areas. Selection of construction-related best management practices would be in accordance with the requirements of the City of Long Beach Department of Development Services. The City of Long Beach Department of Development Services shall ensure compliance throughout the duration of the project.

Mitigation Measure Hydrology-2: In order to mitigate impacts related to surface water quality caused by construction at the project site, prior to the

issuance of permits for all phases of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the plans and specifications require the construction contractor to prepare a Standard Urban Storm Water Mitigation Plan for construction activities and implement best management practices for construction, construction material handling, and waste handling activities, which include the following:

- Schedule excavation, grading, and paving activities for dry weather periods.
- Control the amount of runoff crossing the construction site by means of berms and drainage ditches to divert water flow around the site.
- Identify potential pollution sources from materials and wastes that will be used, stored, or disposed of on the job site.
- Inform contractors and subcontractors about the clean storm water requirements and enforce their responsibilities in pollution prevention.

The construction contractor shall incorporate Standard Urban Storm Water Mitigation Plan requirements and best management practices to mitigate storm water runoff, which include the following:

- The incorporation of bio-retention facilities located within the project area.
- The incorporation of catch basin filtration systems.
- The use of porous pavements to reduce runoff volume.

Mitigation Measure Hydrology-3: In order to mitigate impacts related to surface water quality caused by construction at the project site, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that the construction contractor is undertaking daily street sweeping and trash removal throughout the construction of the project to avoid degradation of water quality.

I. National Pollutant Discharge Elimination System

1. Approved Project

(a) Drainage

As described in the Certified EIR, the Approved Project included upgrades to the existing drainage infrastructure of the Hamilton Bowl Detention Basin to improve drainage from the Project Site and to alleviate any erosion or siltation due to implementation of the Approved Project. Therefore, as on-site drainage would be improved and any increase in

runoff associated with the Approved Project would be accommodated by the improved drainage infrastructure, the Certified EIR determined that the Approved Project would not result in significant impacts associated with compliance with the NPDES relative to drainage.

(b) Pervious Surface

As described in the Certified EIR, with the exception of several structures, the Project Site is nearly completely permeable. As such, implementation of the Approved Project would be expected to reduce the existing on-site pervious area and result in a corresponding increase in stormwater runoff from the Project Site. Therefore, the Approved Project could potentially result in a significant impact relative to compliance with the NPDES from loss of pervious surfaces. However, as concluded in the Certified EIR, with the implementation of BMPs and mitigation measures related to hydrology, water quality, and NPDES, potentially significant impacts associated with compliance with the NPDES due to a reduction in pervious surface would be reduced to a less than significant level.

(c) Storm Drain and Waterway

As analyzed in the Certified EIR, development of the recreational improvements proposed by the Approved Project would not be expected to create a significant discharge of pollutants into the storm drain or waterway. However, the total increase in vehicular trips on roadways and driveways, and the associated increase in parking would be expected to contribute additional pollutants to stormwater runoff. However, in accordance with the NPDES permit, the Approved Project would implement BMPs to reduce or eliminate non-stormwater discharges to the stormwater system. In addition, during construction, the Approved Project would include the implementation of a Storm Water Pollution Prevention Plan and BMPs to reduce potential runoff associated with construction activities. Furthermore, as described above, the Approved Project included upgrades to the existing drainage infrastructure of the Hamilton Bowl Detention Basin to improve drainage from the Project Site and to alleviate any increase in runoff due to implementation of the Approved Project. Therefore, as concluded in the Certified EIR, potentially significant impacts associated with compliance with the NPDES relative to storm drains and waterways would be less than significant under the Approved Project.

2. Modified Project

(a) Drainage

As previously described, the Modified Project would implement the same drainage infrastructure improvements proposed under the Approved Project. Therefore, similar to

the Approved Project, with implementation of the proposed drainage infrastructure improvements, on-site drainage infrastructure would also be improved under the Modified Project. In addition, as with the Approved Project, the proposed drainage infrastructure improvements would serve to accommodate any increase in runoff associated with development of the Project Site. Furthermore, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Approved Project's drainage impacts associated with increased runoff would be reduced under the Modified Project. Thus, as with the Approved Project, impacts associated with compliance with the NPDES relative to drainage would be less than significant. As such, Modified Project impacts associated with compliance with the NPDES relative to drainage would be within the envelope of impacts addressed in the Certified EIR.

(b) Pervious Surface

Similar to the Approved Project, implementation of the Modified Project would result in a decrease in permeable surfaces. Thus, as with the Approved Project, the amount of stormwater runoff due to development of the Project Site would increase relative to existing conditions. However, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Approved Project's impervious surfaces and associated impacts would be reduced under the Modified Project. In addition, as with the Approved Project, the Modified Project would incorporate the same BMPs and mitigation measures related to hydrology, water quality, and NPDES set forth in the Certified EIR. Therefore, as with the Approved Project, impacts associated with compliance with the NPDES relative to pervious surfaces would be less than significant. As such, Modified Project impacts associated with compliance with the NPDES relative to pervious surfaces would be within the envelope of impacts addressed in the Certified EIR.

(c) Storm Drain and Waterway

As previously described, the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project. Therefore, as the Modified Project would include reduced construction activities, the Approved Project's potential impacts to storm drains and waterway associated with potential runoff during construction would be reduced under the Modified Project. In addition, as the Modified Project includes the same general use as the Approved Project, development of the outdoor recreational improvements under the Modified Project also would not be expected to create a significant discharge of pollutants into adjacent storm drains or waterways. Furthermore, as the number of vehicle trips and parking spaces proposed under the Approved Project would be significantly reduced under the Modified Project, the Approved Project's potential to contribute additional pollutants to stormwater runoff would be further reduced. Additionally, as with the Approved Project, the Modified Project would include implementation of a Storm Water Pollution Prevention Plan and associated BMPs in

accordance with the NPDES to reduce or eliminate the discharge of potential pollutants during construction from the stormwater runoff to the maximum extent practicable. In addition, the Modified Project would implement the same drainage infrastructure improvements proposed under the Approved Project, which would serve to improve on-site drainage and alleviate any increase in runoff due to implementation of the Modified Project. Thus, as with the Approved Project, impacts associated with compliance with the NPDES relative to storm drains and waterways would be less than significant under the Modified Project. As such, Modified Project impacts associated with compliance with the NPDES relative to storm drains and waterways would be within the envelope of impacts addressed in the Certified EIR.

3. Mitigation Measures

The mitigation measure set forth in the MMRP included in the Certified EIR and provided below to address impacts associated with compliance with the NPDES remain applicable to the Modified Project. No additional mitigation measures are required for the development of the Modified Project as no new significant impacts regarding compliance with the NPDES would result from implementation of the Modified Project. Also refer to Section H, Hydrology and Water Quality for additional mitigation measures that would serve to further reduce impacts associated with compliance with the NPDES.

Mitigation Measure NPDES-1: The applicant shall be required to demonstrate that the construction contractor is implementing best management practices consistent with National Pollutant Discharge Elimination System Permit No. CAS 004003 to reduce transport of pollutants of concern from the construction site to the storm drainage and waterway system for each construction phase of the project as well as during the operation of the project. Prior to the issuance of permits for each construction phase of the project, the applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that final plans and specifications require compliance with National Pollutant Discharge Elimination System Permit No. CAS 004003 throughout the life of the project. The construction contractor for each construction phase shall be required to submit a Standard Urban Storm Water Management Plan to the City of Long Beach Department of Development Services for review and approval at least 30 days prior to the anticipated need for a grading permit. The City of Long Beach Department of Development Services shall monitor construction to ensure compliance with National Pollutant Discharge Elimination System Permit No. CAS 004003. The City of Long Beach Department of Development Services shall ensure National Pollutant Discharge Elimination System compliance throughout the duration of the project.

J. Land Use and Planning

1. Approved Project

(a) Consistency with Applicable Land Use Plans

The Project Site is subject to the policies, procedures, and standards set forth in the City of Long Beach General Plan. In addition, the Project Site is subject to the provisions of the City of Long Beach Zoning Regulations included in Title 21 of the City of Long Beach Municipal Code, which, in part, facilitates implementation of General Plan objectives through land use designations and development standards. As a result of the entitlements approved by the City for the Approved Project, the Project Site is now designated as LUD No. 10 – Institutional and School District and is zoned as Institutional (I).

As described above, the Project Site is currently used as a stormwater detention basin and general recreational field for seasonal sports. Therefore, the existing on-site uses are currently consistent with the land use designation and zoning of the Project Site. As part of the Approved Project, existing recreational uses would be expanded and the Project Site would continue its use as a stormwater detention basin. As analyzed in the Certified EIR, following the development of the proposed improvements, the Approved Project would be consistent with the change in land use designation and zoning. However, as the Approved Project would include the demolition of a historic resource (Low-Flow Pump Station), the Approved Project would conflict with the goals and policies of the City General Plan related to the preservation of historic resources. As such, the Approved Project would result in a significant impact to land use and planning due to its conflict with the City General Plan. As concluded in the Certified EIR, with implementation of Mitigation Measure Cultural-2, potentially significant land use impacts associated with removal of the historic Low-Flow Pump Station would be reduced to the extent feasible but would remain significant and unavoidable.

(b) Compatibility with On-Site and Surrounding Land Uses

As evaluated in the Certified EIR, the existing land uses on the Project Site, including its recreational uses and its use as a stormwater detention basin, do not currently conflict with the surrounding land uses. In addition, as the Approved Project proposed to expand existing recreational uses as well as maintain the Project Site's use as a stormwater detention basin, the Approved Project would continue to be compatible with existing on-site and surrounding land uses. Furthermore, the Approved Project would be developed within the limits of the existing Chittick Field and would therefore not create a physical division within an established community. Thus, the Certified EIR concluded that the Approved Project would not result in significant impacts regarding compatibility with surrounding land uses.

2. Modified Project

(a) Consistency with Applicable Land Use Plans

As with the Approved Project, the Modified Project proposes to expand existing recreational uses within the Project Site and continue the Project Site's use as a stormwater detention basin. The Modified Project would expand existing uses within the Project Site but, would not conflict with the amended land use designation and zoning of the Project Site. The land uses, outdoor athletic facilities, have historically been present at the site since 1950, when Los Angeles County first granted permission for the City of Long Beach to establish recreational facilities in the dry detention basin. However, similar to the Approved Project, removal of the Low-Flow Pump Station would also occur under the Modified Project. Thus, impacts to land use and planning associated with removal of a historic resource would be the same as those under the Approved Project and would remain significant and unavoidable. As such, this impact would be within the envelope of impacts analyzed in the Certified EIR.

(b) Compatibility with On-Site and Surrounding Land Uses

As described above in Section III, Project Description, the Modified Project proposes the development of two youth soccer fields, one adult soccer field, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions. In addition, as with the Approved Project, the Project Site's use as a stormwater detention basin would continue with implementation of the Modified Project. Therefore, like the Approved Project, the Modified Project would continue to be consistent and compatible with the land use mix of the surrounding area. In addition, similar to the Approved Project, the Modified Project would be developed within the boundaries of the existing Hamilton Bowl/Chittick Field. Therefore, the Modified Project would not disrupt or divide a community. Thus, as with the Approved Project, the Modified Project would result in less than significant impacts with regard to land use compatibility. Such impacts would be within the envelope of impact analysis provided in the Certified EIR.

3. Mitigation Measures

The mitigation measure (Cultural-2) set forth in the MMRP included in the Certified EIR to address land use and planning impacts associated with removal of a historic resource would also apply to the Modified Project. No additional mitigation measures are required for development of the Modified Project as no new significant impacts to land use and planning would result from implementation of the Modified Project. The mitigation measure (Cultural-2) identified in the Certified EIR to address historic resources impacts is provided above in Section E, Cultural Resources.

K. Mineral Resources

1. Approved Project

As described in the Initial Study for the Approved Project, based on California Division of Mines and Geology publications, there are no known mineral resources of statewide or regional importance located within the Project Site. In addition, according to the Conservation element of the City's General Plan, there are no known mineral resource recovery sites of local importance located within the Project Site. Furthermore, there are no mining districts located in or around the vicinity of the Project Site. In addition, though oil deposits are abundant in the Long Beach area and have been exploited since 1936, the Project Site is part of an already developed area and the loss of availability of oil resources is not expected.

2. Modified Project

Development of the Modified Project would occur within the same Project Site and under the same general conditions as analyzed in the Certified EIR. As described above, the Project Site does not contain mineral resources and such uses are not proposed as part of the Modified Project. Therefore, similar to the Approved Project, no impacts to mineral resources would result from the Modified Project. Thus, impacts on mineral resources under the Modified Project would be within the envelope of impact addressed in the Certified EIR.

3. Mitigation Measures

As the Approved Project would not result in significant impacts to mineral resources, no mitigation measures related to mineral resources were required. As with the Approved Project, development of the Modified Project also would not result in significant impacts to mineral resources, and, as such, no new mitigation measures are necessary under the Modified Project.

L. Noise

1. Approved Project

(a) Construction

As analyzed in the Certified EIR, construction activities associated with implementation of the Approved Project would result in noise level increases that would exceed the 5-dBA significance threshold at multiple sensitive receptors located near the Project Site. With implementation of Mitigation Measures Noise-1 through Noise-7

provided in the Certified EIR, noise levels associated with Approved Project construction activities would be reduced to some extent but would not be reduced below the significance threshold. As such, Approved Project noise impacts from on-site construction noise were considered significant and unavoidable.

The Certified EIR also analyzed the potential for Approved Project construction to generate ground-borne vibration. As described therein, development of the Approved Project may require drilled or driven piles, which would exceed the potential building damage threshold at the multi-family residence to the south of the Project Site. No feasible mitigation measures were provided to reduce this potentially significant impact. Therefore, the Approved Project was concluded to result in a significant and unavoidable vibration impact.

(b) Operation

As discussed in the Certified EIR, noise levels associated with vehicular traffic, operation of mechanical equipment, indoor activities, as well as loading activities, would not be anticipated to result in a substantial increase over the ambient noise level. In addition, impacts from the Project Site's location within two miles of a public airport would not be significant. However, ambient noise increases due to outdoor and parking activities would exceed the 5-dBA threshold for operational noise. Therefore, implementation of the Approved Project was considered to result in significant impacts. However, with implementation of Mitigation Measures Noise-8 and Noise-9 provided in the Certified EIR, impacts associated with outdoor and parking activities would be reduced to a less than significant level.

2. Modified Project

(a) Construction

As previously described, the Modified Project would be developed within the boundaries of the Project Site analyzed in the Certified EIR. Therefore, the distance to the sensitive receptors described in the Certified EIR would be unchanged under the Modified Project. However, as the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, the Modified Project would result in a significantly reduced level of construction activities. Thus, potential construction-related noise impacts would be reduced at nearby sensitive receptors when compared with the Approved Project. In addition, the Modified Project would implement the same construction mitigation measures, as applicable, identified for the Approved Project. Therefore, the Modified Project would not create any new significant impacts related to construction noise nor result in a substantial increase in a previously identified significant

impact. As such, construction noise impacts under the Modified Project would be within the envelope of impact analysis addressed in the Certified EIR.

With regard to the potential for Modified Project construction to generate ground-borne vibration, it is not anticipated that impact pile driving would be required for development of the Modified Project. Thus, impacts associated with ground-borne vibration during construction of the Modified Project would be reduced relative to the Approved Project. As such, Modified Project impacts associated with the potential for ground-borne vibration during construction would be within the envelope of impacts set forth in the Certified EIR.

(b) Operation

In order to determine if the Modified Project would result in potential noise impacts, the increases in noise levels that may be experienced at adjacent sensitive receptors with implementation of the Modified Project were compared to the existing ambient noise levels established in the Certified EIR (daytime ambient noise levels). An additional supplemental ambient noise measurement (nighttime ambient noise levels) was also conducted by AES on April 26, 2012. A description of adjacent sensitive noise receptors as well as existing ambient noise levels experienced at these sensitive receptors are provided in Table 1 on page 41. As described above, a significant noise impact would occur if the Modified Project were to result in noise level increases of 5 dBA or greater.

As previously described, the Modified Project includes three soccer fields, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions. It is anticipated that the new athletic fields would be used daily, up to 10:30 P.M. As set forth in the Certified EIR, noise generated from outdoor activities, including athletic fields, would typically reach a level of 73 dBA at a distance of 50 feet. To provide for a worst-case scenario, this analysis assumed that all four athletic fields would be used concurrently. The results of this analysis are provided in Table 2 on page 41. As shown therein, the Modified Project would generate noise levels at sensitive receptor 1 (residential uses along Gardenia Avenue east of the Project Site) that would increase the existing nighttime ambient sound level (between 10:00 and 11:00 P.M.) by up to 16.8 dBA L_{eq} , thus exceeding the significance threshold of 5 dBA. At sensitive receptors 2, 3 and 4, the Modified Project would result in increases of 0.5 dBA L_{eq} at sensitive receptor 2, 3.0 dBA L_{eq} at sensitive receptor 3, and 0.8 dBA L_{eq} at sensitive receptor 4, all of which would be below the significance threshold of 5 dBA.

While Modified Project noise levels would be below the significance threshold at the majority of the sensitive receptor locations, an exceedance of the significance threshold at

**Table 1
Ambient Noise Levels**

Sensitive Receptor	Approximate Distance to Project Site (feet)	Measured Ambient Noise Levels, dBA L _{eq}	
		Daytime Hours ^a	Nighttime Hours ^b
1 Single- and multi-family residences along Gardenia Street east of the Project Site	Adjacent	51.1	46.6
2 Multi-family residence along Pacific Coast Highway south of the Project Site	175	71.3	67.2
3 Single-family residence along Walnut Avenue west of the Project Site	Adjacent	69.2	56.5
4 Long Beach City College—Pacific Coast Campus, west of the Project Site	65	65.5	— ^c

^a Kroc Community Center, Draft EIR, Table 3.10.2-1, March 26, 2009. Ambient noise measurements conducted on October 30, 2008 between 8:00 A.M. and 10:30 A.M.

^b Ambient noise measurements conducted on April 26, 2012 between 10:00 P.M. and 11:05 P.M.

^c No nighttime ambient noise measurements were conducted at Receptor 4 (Long Beach City College), as the college is not in session after 10:00 P.M.

Source: Acoustical Engineering Services, 2012.

**Table 2
Modified Project Noise Impacts**

Sensitive Receptor	Approximate Distance between the Nearest Proposed Athletic Field and Sensitive Receptor, feet	Existing Ambient Noise Levels, dBA L _{eq}	Estimated Modified Project Noise Levels, ^a dBA L _{eq}	Ambient + Modified Project Noise Levels, dBA L _{eq}	Increase in Ambient Noise Levels due to Modified Project, dBA L _{eq}	Ambient + Modified Project Noise Levels with Mitigation, dBA L _{eq}
1	185	46.6	63.3	63.4	16.8	50.6
2	425	67.2	58.2	67.7	0.5	N/A
3	460	56.5	56.5	59.5	3.0	N/A
4	400	65.5	58.4	66.3	0.8	N/A

^a Sport fields noise levels were calculated based on reference noise level of 73 dBA at 50 feet distance.

Source: Acoustical Engineering Services, 2012.

sensitive receptor 1 would constitute a significant impact. However, Mitigation Measure Noise-9, included in the Certified EIR and listed below, is proposed to reduce noise levels anticipated to be experienced at sensitive receptor 1. This mitigation measure includes the construction of a noise barrier wall along the Project Site's eastern property line, which would serve to interrupt the line-of-sight between sensitive receptor 1 and the Project Site. As shown in Table 2 on page 41, with implementation of this mitigation measure, ambient plus Modified Project noise levels at sensitive receptor 1 (63.4 dBA) would be reduced to approximately 50.6 dBA. When comparing this reduction (50.6 dBA) to the existing ambient noise levels at sensitive receptor 1 (46.4), the resulting increase in ambient noise level after implementation of Mitigation Measure Noise-9 would be 4 dBA L_{eq} . As such, the increase in ambient noise level with the recommended mitigation measure would be below the significance threshold of 5 dBA. Therefore, as with the Approved Project, operational noise impacts under the Modified Project would be less than significant with implementation of mitigation. Thus, operational noise impacts under the Modified Project would be within the envelope of impact analysis addressed in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address noise impacts remain applicable to the Modified Project, with noted revisions provided in ~~strikethrough~~ and underline.

Mitigation Measure Noise-1: All construction equipment shall be equipped with mufflers and other suitable noise attenuation devices.

Mitigation Measure Noise-2: The applicant shall require that grading and construction contractors use equipment with rubber tires rather than tracks to the extent possible, to minimize the impacts of excavation and grading noise upon the adjacent neighborhood.

Mitigation Measure Noise-3: A 10-foot sound attenuation blanket shall be installed along the eastern portion of the property line such that the line of sight is blocked from construction activity to the residential land uses, which would include the area for the ~~proposed 6-8 Middle School~~ Jesse Elwin Nelson Academy scheduled to open in ~~2011-Fall 2012~~ northeast of the project. The blankets shall remain in place as long as construction activity utilizing heavy duty equipment is located within 200 feet of the property line.

Mitigation Measure Noise-4: A 10-foot sound attenuation blanket shall be installed along the northwestern portion of the property line such that the line of sight is blocked from construction activity to the single-family residence. The blankets shall remain in place as long as construction activity utilizing heavy duty equipment is located within 130 feet of the property line.

Mitigation Measure Noise-5: A 10-foot sound attenuation blanket shall be installed along the southern portion of the property line such that the line of sight is blocked from construction activity to the multi-family residence. The blankets shall remain in place as long as construction activity utilizing heavy duty equipment is located within 100 feet of the property line.

Mitigation Measure Noise-6: A 10-foot sound attenuation blanket shall be installed along the northern portion of the property line such that the line of sight is blocked from construction activity to the Alvarado (Juan Bautista) Elementary School and the ~~new 6-8 Middle School Jesse Elwin Nelson Academy~~ if it is in operation during construction activities. The blankets shall remain in place as long as construction activity utilizing heavy duty equipment is located within 50 feet of the property line.

Mitigation Measure Noise-7: A noise disturbance coordinator shall be established. The disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable.

~~**Mitigation Measure Noise-8:** A 6-foot high solid wall shall be constructed along the eastern portion of the outdoor aquatics area such that the line of sight is blocked from the swimming pools to residential land uses.~~

~~**Mitigation Measure Noise-9**~~ **Noise-8:** A 6-foot-high solid wall shall be constructed along the eastern property line of the project site such that the line of sight is blocked from the ~~parking lot~~ athletic fields to residential land uses.

M. Population and Housing

1. Approved Project

As discussed in the Initial Study for the Approved Project, the Approved Project would not include the construction of new homes or businesses or extend infrastructure into areas not currently service by roads or other infrastructure. In addition, the Approved Project would not result in the displacement of existing housing or people. Therefore, the Approved Project would not induce substantial population growth or necessitate the construction of replacement housing elsewhere. As such, no significant impacts to population and housing would occur under the Approved Project.

2. Modified Project

As with the Approved Project, residential uses are not proposed under the Modified Project. In addition, the Modified Project would not displace any existing adjacent housing. Therefore, impacts to population and housing associated with the Modified Project would remain less than significant. As such, impacts on population and housing under the Modified Project would be within the envelope of impacts set forth in the Certified EIR.

3. Mitigation Measures

As the Approved Project would not result in significant impacts to population and housing, no mitigation measures related to population and housing were required. As with the Approved Project, development of the Modified Project also would not result in significant impacts to population and housing, and, as such, no new mitigation measures are necessary under the Modified Project.

N. Public Services

1. Approved Project

As analyzed in the Initial Study for the Approved Project, the Approved Project would not be expected to induce population growth and would not include residential development typically associated with an increased demand for public services. In addition, sufficient public services are currently in place to serve the Approved Project. As such, impacts associated with fire protection, police protection, schools, parks, post offices, libraries, and hospitals under the Approved Project would be less than significant.

2. Modified Project

As noted in Section III, Project Description, above, the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project. Therefore, the demand for additional fire and police protection services associated with the construction of new buildings would be reduced compared to the Approved Project. In addition, similar to the Approved Project, the Modified Project would not include residential development, which could induce population growth and create a corresponding demand for increased public services. Furthermore, as with the Approved Project, recreational facilities in the City would be increased upon completion of the Modified Project. Therefore, impacts to public services associated with the Modified Project would remain less than significant. As such, impacts on public services under the Modified Project would be within the envelope of impacts analyzed in the Certified EIR.

3. Mitigation Measures

As the Approved Project would not result in significant impacts to public services, no mitigation measures related to public services were required. As with the Approved Project, development of the Modified Project also would not result in significant impacts to public services, and, as such, no new mitigation measures are necessary under the Modified Project.

O. Recreation

1. Approved Project

As described in the Certified EIR, the Project Site provides several picnic tables and recreational fields for seasonal sports. As analyzed in the Certified EIR, during construction of the Approved Project, an increase in the use of nearby parks and recreational facilities may occur due to the temporary loss of access to the Project Sites' recreational facilities. However, upon implementation of the Approved Project, increased recreational space would be available to better address the recreational needs of the community. Therefore, the Certified EIR concluded that development of the Approved Project would not result in direct significant impacts to recreational facilities. However, development of the Approved Project includes the construction of recreational facilities that may result in the demolition of the Low-Flow Pump Station, which is a potentially historical resource. As the Approved Project includes removal of the Low-Flow Pump Station, the Certified EIR determined that a significant and unavoidable impact associated with historical resources would result even after implementation and completion of the recommended mitigation measure (Cultural-2).

2. Modified Project

As previously described, with the Modified Project, the previously planned development has been reduced such that the majority of the buildings proposed would no longer be developed. Specifically, the Modified Project would include three soccer fields, one regulation football field surrounded by a 400-meter all-weather track and accommodations for javelin, pole vault, shot put, discus, hammer, long jump, and triple jump competitions. While indoor recreational facilities would no longer be constructed, as with the Approved Project, implementation of the Modified Project would provide for increased and improved recreational facilities at the Project Site to serve the City. Therefore, impacts to recreational facilities would remain less than significant under the Modified Project and would be within the envelope of impacts addressed in the Certified EIR.

As noted above in Section E, Cultural Resources, similar to the Approved Project, development of recreational facilities under the Modified Project would also result in the removal of the Low-Flow Pump Station. Therefore, as with the Approved Project, impacts from development of recreational facilities at the Project Site would result in a significant impact to historical resources. While the Modified Project would implement the same mitigation measure (Cultural-2) to address impacts to a historical resource, like the Approved Project, impacts would remain significant and unavoidable. This impact would be within the envelope of impact analysis set forth in the Certified EIR.

3. Mitigation Measures

The mitigation measure set forth in the MMRP included in the Certified EIR to address impacts from development of recreational facilities would also apply to the Modified Project. No additional mitigation measures are required for the development of the Modified Project as no new significant impacts associated with recreation would result from implementation of the Modified Project. The mitigation measure (Cultural-2) identified in the Certified EIR to address historic resources impacts is provided above in Section E, Cultural Resources.

P. Transportation and Traffic

1. Approved Project

As provided in the Certified EIR, while construction-related traffic associated with the Approved Project would result in temporary short-term impacts, implementation of a mitigation measure requiring the preparation of a construction management plan would reduce any potential construction-related traffic impacts to a less than significant level. In addition, with implementation of a mitigation measure regarding the installation of a traffic signal at the intersection of Rose Avenue and East Pacific Coast Highway, potential traffic impacts associated with operation of the Approved Project would also be reduced to a less than significant level. With regard to parking, it is anticipated that the parking spaces planned to be provided within the Project Site would be adequate to meet the parking demand associated with the Approved Project. As such, the Certified EIR concluded that overall impacts related to transportation and traffic would be less than significant with implementation of mitigation.

2. Modified Project

As previously described, the Modified Project would result in a decrease in construction activities and would not include additional or new uses with the potential to generate traffic. Therefore, traffic impacts associated with construction and operation of the Modified Project would be reduced compared to the Approved Project.

With regard to operational traffic, as the Modified Project would result in a reduction in overall development and uses proposed within the Project Site as well as a reduction in the amount of parking, vehicular trips associated with implementation of the Approved Project would be reduced under the Modified Project. Furthermore, it is envisioned that with development of the athletic fields proposed under the Modified Project, use of the Project Site would continue in a similar manner as it does currently. Specifically, consistent with the existing programming, primary use of the soccer fields would occur during the P.M. peak hour from approximately 6:00 P.M. to 10:30 P.M. Tuesday through Friday. Thus, the number of trips associated with the Modified Project would be expected to be comparable to existing conditions and less than under the Approved Project. In addition, the same mitigation measures regarding transportation and traffic would be implemented under the Modified Project. Thus, as with the Approved Project, construction and operational impacts would continue to be less than significant with implementation of mitigation measures. As such, Modified Project transportation and traffic impacts would be within the envelope of impacts set forth in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address traffic impacts remain applicable to the Modified Project, with noted revisions provided in ~~strikethrough~~ and underline. No additional mitigation measures are required for the development of the Modified Project as no new significant impacts associated with transportation and traffic would result from implementation of the Modified Project.

~~**Mitigation Measure Transportation-1:** In order to mitigate the impact related to substantially increasing hazards due to a design feature or incompatible uses, the project applicant shall install a traffic signal at the intersection of Rose Avenue and East Pacific Coast Highway. The installation of a traffic signal at this key intersection, and associated signing and striping modifications inclusive of crosswalks to facilitate pedestrian access to the site, is subject to the approval of the City of Long Beach and the California Department of Transportation.~~

Mitigation Measure ~~Transportation-2~~ Transportation-1: To ensure that impacts to the surrounding street system are minimized, it is recommended that the construction management plan for the project be developed in coordination with the City of Long Beach and, at a minimum, address the following:

- Address traffic control for any street closure, detour, or other disruption to traffic circulation.

- Identify the routes that construction vehicles shall utilize for the delivery of construction materials (i.e., lumber, tiles, piping, windows, etc.) and to access the site, traffic controls and detours, and construction phasing plan for the project.
- Specify the hours during which transport activities can occur and methods to mitigate construction-related impacts to adjacent streets.
- Require the applicant to keep all haul routes clean and free of debris including but not limited to gravel and dirt as a result of its operations. The applicant shall clean adjacent streets, as directed by the City Engineer (or representative of the City Engineer), of any material which may have been spilled, tracked, or blown onto adjacent streets or areas.
- Limit hauling or transport of oversize loads to between the hours of 9:00 A.M. and 3:00 P.M. only, Monday through Friday, unless approved otherwise by the City Engineer. No hauling or transport shall be allowed during nighttime hours, weekends, or federal holidays.
- Prohibit use of local streets.
- Ensure that haul trucks entering or exiting public streets shall at all times yield to public traffic.
- Ensure that, if hauling operations cause any damage to existing pavement, street, curb, and/or gutter along the haul route, the applicant shall be fully responsible for repairs. The repairs shall be completed to the satisfaction of the City Engineer.
- Keep all construction-related parking and staging of vehicles on site and out of the adjacent public roadways.
- Ensure that the plan shall meet standards established in the current California Manual on Uniform Traffic Control Device as well as City of Long Beach requirements.
- Limit hauling or transport of oversize loads to between the hours of 9:00 A.M. and 3:00 P.M. only, Monday through Friday, unless approved otherwise by the City Engineer. No hauling or transport shall be allowed during nighttime hours, weekends, or federal holidays.

Q. Utilities and Service Systems

1. Approved Project

(a) Wastewater

As analyzed in the Certified EIR, the estimated daily wastewater flow attributable to the Approved Project would not be anticipated to generate enough wastewater that would overburden the Joint Water Pollution Control Plant's (JWPCP) current capacity and require additional wastewater treatment facilities. In addition, the Certified EIR concluded that with implementation of Mitigation Measure Utilities-1, impacts associated with the potential for the Approved Project's additional wastewater flows to exceed the wastewater treatment requirements of the JWPCP would be reduced to less than significant.

(b) Storm Drain System

As described in the Certified EIR and in Section H, Hydrology and Water Quality, above, the Approved Project would include upgrades to the existing drainage infrastructure of the Hamilton Bowl Detention Basin to improve drainage from the Project Site and to alleviate any erosion or siltation due to the implementation of the Approved Project. In addition, based on the uses proposed, the Approved Project would not be expected to result in the significant discharge of pollutants into the nearby storm drains or waterways. Therefore, the Approved Project would not be anticipated to exceed the capacity of existing or planned stormwater drainage systems. As such, the Certified EIR determined that the Approved Project would not result in significant impacts regarding the need for new or expanded stormwater drainage systems.

(c) Water Supply

As described in the Certified EIR, the City receives its potable (drinking) water supply from groundwater wells located within the City and from treated surface water purchased from the Metropolitan Water District of Southern California. As evaluated in the Certified EIR, the Approved Project would have the potential to reduce the water supply produced from groundwater wells due to a reduction in groundwater recharge from the increase in impervious surfaces within the Project Site. In addition, the Approved Project's anticipated water use would contribute to an increased demand for water supplies. However, with implementation of Mitigation Measure Utilities-2, potential impacts associated with the Approved Project's increased demand for additional water supplies would be reduced to a less than significant level.

(d) Solid Waste

As discussed in the Certified EIR, it is anticipated that the amount of solid waste to be generated during and after development of the Approved Project would not exceed the capacity of the existing Southeast Resource Recovery Facility. In addition, the amount of solid waste to be generated at the Project Site would continue to be collected and disposed at existing solid waste facilities without exceeding their respective carrying capacities, if infeasible to do so at the Southeast Resource Recovery Facility. Furthermore, in compliance with existing applicable regulations regarding solid waste, the Approved Project would implement sustainable practices that would further reduce the amount of solid waste generated by the Approved Project. Therefore, as concluded in the Certified EIR, potential impacts on the capacity of the existing Southeast Resource Recovery Facility associated with the solid waste generated by the Approved Project would be less than significant. In addition, the Certified EIR included Mitigation Measure Utilities-3 to ensure that solid waste impacts would remain less than significant.

2. Modified Project

(a) Wastewater

As the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project, wastewater generation associated with the construction of new buildings would be reduced compared to the Approved Project. In addition, with implementation of the same mitigation measure set forth in the Certified EIR to address wastewater treatment requirements of the JWPCP, impacts under the Modified Project would be further reduced. Thus, impacts associated with Modified Project wastewater generation would be within the envelope of impact provided in the Certified EIR.

(b) Storm Drain System

As the Modified Project would result in a reduction in the number of buildings and parking spaces proposed under the Approved Project, it is anticipated that the Modified Project would result in a corresponding decrease in pollutants discharged into the nearby storm drains. As such, impacts to storm drains serving the Project Site would continue to be less than significant under the Modified Project and would be within the envelope of impacts addressed in the Certified EIR.

(c) Water Supply

As the majority of the buildings and pool facilities proposed under the Approved Project would no longer be developed as part of the Modified Project, the water demand

estimated for the Approved Project would be reduced with implementation of the Modified Project. In addition, with implementation of the same mitigation measure provided in the Certified EIR to address water resources, impacts under the Modified Project would be further reduced. Therefore, impacts associated with Modified Project water demand would be within the envelope of impacts set forth in the Certified EIR.

(d) Solid Waste

As previously noted, the majority of the buildings proposed under the Approved Project would no longer be developed as part of the Modified Project. Therefore, the Modified Project would not result in an increase in solid waste generation beyond that anticipated for the Approved Project. In addition, as with the Approved Project, the Modified Project would comply with applicable regulations related to solid waste, including those pertaining to waste reduction and recycling. Furthermore, the Modified Project would implement the same mitigation measure (Utilities-3) provided in the Certified EIR to address solid waste generation at the Project Site. Thus, potential impacts associated with solid waste would continue to be less than significant and within the envelope of impact set forth in the Certified EIR.

3. Mitigation Measures

The mitigation measures set forth in the MMRP included in the Certified EIR and provided below to address impacts to utilities and service systems remain applicable to the Modified Project, with noted revisions provided in ~~strike through~~. No additional mitigation measures are required for the development of the Modified Project as no new significant impacts to utilities and service systems would result from implementation of the Modified Project.

Mitigation Measure Utilities-1: The City of Long Beach shall require the construction contractor to comply with the California Department of Transportation construction site best management practices, as identified in the Storm Water Quality Handbook Best Management Practices Manual, when installing or repairing wastewater treatment facilities. The City of Long Beach Department of Development Services shall require the construction contractor to implement best management practices consistent with National Pollutant Discharge Elimination System Permit No. CAS 004003 to reduce transport of pollutants of concern from the construction site to the storm drainage and waterway system for each construction phase of the project, as well as during operation of the project. The construction contractor for each phase of the project shall be required to submit a Standard Urban Storm Water Management Plan to the City of Long Beach for review and approval at least 30 days prior to the anticipated need for

a grading permit. The Department of Development Services shall monitor construction to ensure compliance with National Pollutant Discharge Elimination System Permit No. CAS 004003.

Mitigation Measure Utilities-2: The City of Long Beach has incorporated Leadership in Energy and Environmental Design elements into the project that would reduce the potable water demand at the site and increase the efficiency of the water used for the project. This would include water conservation requirements for the proposed project, namely the installation of high-efficiency toilets (HET) in which the applicant may receive a \$30 rebate per HET installed; the installation of ultra-low flush or zero-water urinals; and compliance with the State of California Model Landscape Ordinance, which only allows for the use of water-efficient irrigation equipment, has strict limits on the use of turf grass, and places strict limits on the expected quantity of water required per square foot of landscape. The applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that consultation with the County of Los Angeles and Long Beach Water Department is conducted to incorporate other best management practices to address the increase in water demand, with the potential of implementing ordinances and regulations that would promote the efficient use of water at the project site. Degradation of water quality during construction of the project shall be reduced to below the level of significance through the requirement to conduct a detailed hydrology study based on the final site plans and to implement the recommendations, or comparable measures, into the plans and specifications for each project element prior to final approval by the City of Long Beach Department of Development Services. ~~A Senate Bill 610 water supply assessment or comparable study shall be prepared by a certified civil engineer, and a draft report, including recommendations, shall be submitted to the Department of Development Services for review. The Department of Development Services shall provide comments, if any, within 14 days of receiving the draft hydrology study. A Senate Bill 610 water supply assessment or comparable study shall be prepared by the retail water supplier. The Long Beach Water Department has determined that a water assessment is not required for this project.~~

Mitigation Measure Utilities-3: The applicant shall demonstrate to the satisfaction of the City of Long Beach Department of Development Services that at least 50 percent of the construction solid waste from the project is being diverted to comply with applicable federal, state, and local statutes related to solid waste and reduce direct and cumulative impacts from construction to below the level of significance. To ensure conformance with the Solid Waste Management Act of 1989, the City of Long Beach shall further require the construction

contractor to manage the solid waste generated during construction of each element of the project by diverting at least 50 percent of it from disposal in landfills, particularly Class III landfills, through source reduction, reuse, and recycling of construction and demolition debris. The construction contractor shall submit a construction Solid Waste Management Plan to the City of Long Beach prior to construction of the project. The construction contractor shall demonstrate compliance with the Solid Waste Management Plan through the submission of monthly reports during demolition activities that estimate the total solid waste generated and diversion of 50 percent of the solid waste.

VI. Conclusion

As demonstrated by the discussion above, impacts associated with the Modified Project would be similar to or less than the impacts addressed in the Certified EIR. Thus, a new or greater significant impact would not result from the Modified Project. In addition, all of the mitigation measures included as part of the Certified EIR would continue to be implemented under the Modified Project. As all of the impacts would be within the envelope of impacts analyzed in the Certified EIR, no additional environmental analysis of the Modified Project is necessary.