

ORANGE COUNTY SANITATION DISTRICT
BIOSOLIDS MASTER PLAN
PROJECT NO. PS15-01
Initial Study

Prepared for
Orange County Sanitation District

July 2017



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ENVIRONMENTAL CHECKLIST

Initial Study

1. **Project Title:** Orange County Sanitation District Biosolids Master Plan

2. **Lead Agency Name and Address:** Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

3. **Contact Person and Phone Number:** Mr. Kevin Hadden
(714) 593-7462

4. **Project Location:** Orange County Sanitation District
Treatment Plant No. 1
10844 Ellis Avenue
Fountain Valley, CA 92708

Orange County Sanitation District
Treatment Plant No. 2
22212 Brookhurst Street
Huntington Beach, CA 92646

5. **Project Sponsor's Name and Address:** Orange County Sanitation District

6. **General Plan Designation(s):** Plant No. 1: Manufacturing (MP)

Plant No. 2: Public (P)

7. **Zoning:** Plant No. 1: Manufacturing Zoning District

Plant No. 2: Industrial Limited (IL) and Residential Agriculture with an Oil Overlay (RA-O)

8. Description of Project:

The Orange County Sanitation District (OCSD) is proposing to implement the Biosolids Master Plan (BMP) (proposed program) which includes upgrades to and construction of new biosolids handling facilities to be implemented over a 20-year planning period (**Figure 1, Project Location**). The nine individual projects that would be implemented under this BMP would provide for flexible and sustainable biosolids handling to accommodate increased wastewater treatment for the future. Proposed projects include installation of perimeter screening around

Plant No. 2, construction of temporary and permanent processing facilities for new waste streams, relocation of a warehouse and collections yard on Plant No. 2, construction of six new digesters, replacement of seven existing digesters, and demolition of six existing digesters. All proposed projects would be located within OCSD Plant No. 1 and No. 2 boundaries; therefore, the “project area” includes Plant No. 1 and Plant No. 2 (**Figure 2, Project Area**).

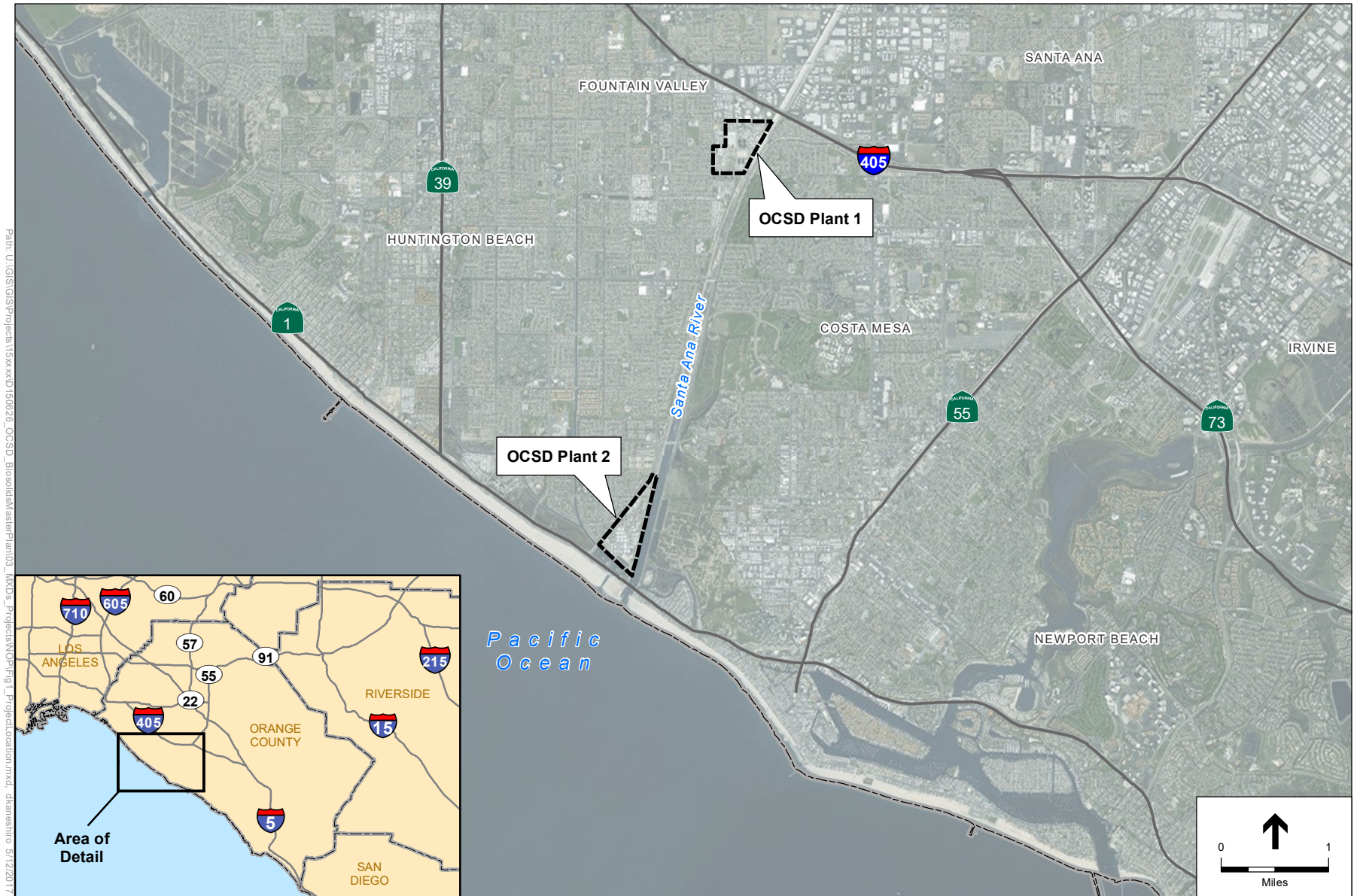
9. Surrounding Land Uses and Setting:

The majority of the projects proposed under the BMP would be implemented entirely within the existing OCSD Plant No. 2 wastewater treatment facility. The Santa Ana River (SAR) and SAR Trail are located immediately east of the facility. Residential neighborhoods are located north and west of Plant No.2. The Talbert Marsh, Pacific Coast Highway (PCH), and the Pacific Ocean are located south of Plant No. 2.

The existing Plant No. 2 collections area (parking lot) may be relocated to Plant No. 1. Plant No. 1 is bound by Ellis Avenue to the north; Ward Street to the west; Garfield Avenue to the south; and the SAR and SAR Trail to the east. Residential neighborhoods are located west of Ward Street. Commercial uses are north of Ellis Avenue and south of Garfield Avenue are industrial power grids and a landscape center.

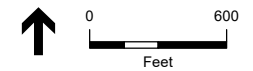
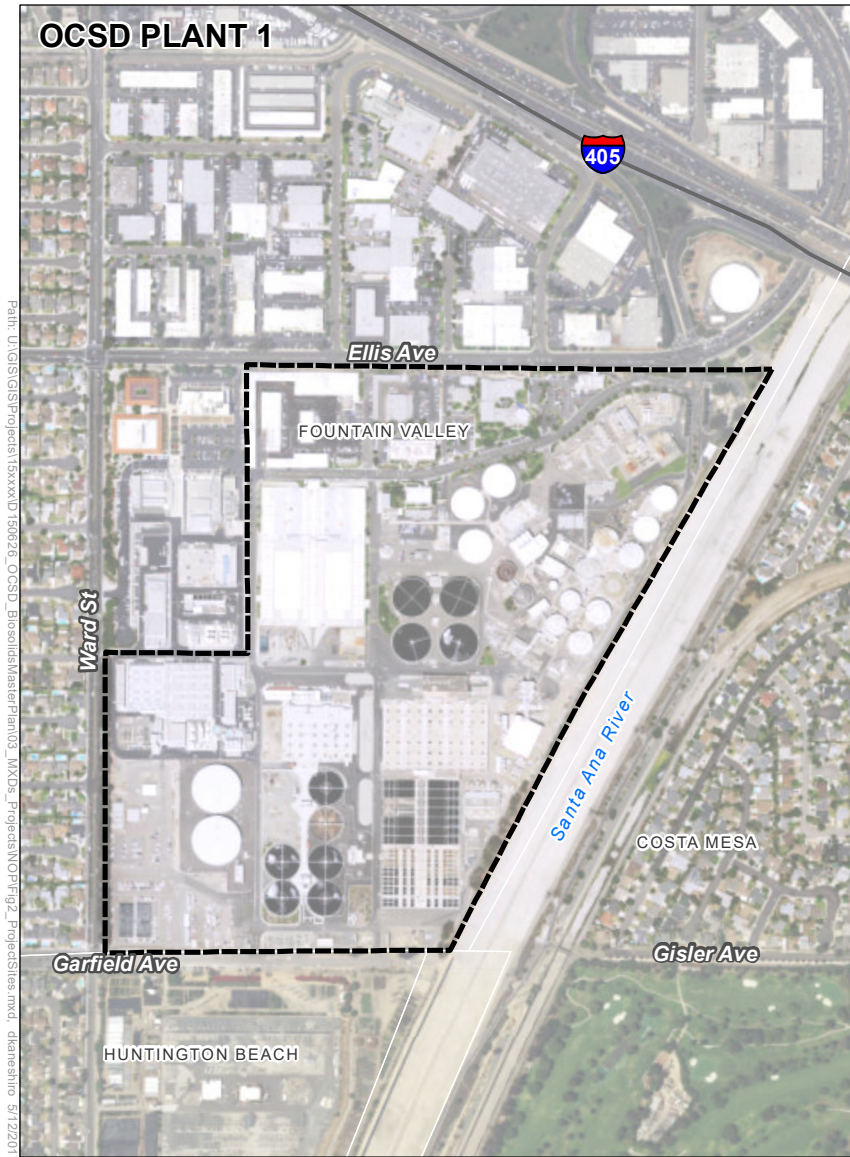
10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)

- California Department of Public Health (CDPH): Use Permit;
- Regional Water Quality Control Board – Storm Water Pollution Prevention Plans (SWPPP); General Construction Permit;
- City of Huntington Beach – Coastal Development Permit, Local construction/encroachment permits
- City of Fountain Valley – Local construction/encroachment permits
- Air Quality Management District: Permit to Construct, Permit to Operate



Path: U:\GIS\GISProjects\150626_OCSD_Biosolids\asterPlan03_Maps_Projects\NCP\Fig1_ProjectLocation.mxd; dkamshiro; 5/12/2017

SOURCE: ESA, ESRI. OCSD Biosolids Master Plan . 150626 **Figure 1**
Project Location



Path: U:\GIS\GIS\Projects\15xxxx\150626_OCSD_BiosolidsMasterPlan\3_MXD\Projects\NOP\Fig2_ProjectSites.mxd, diana.silino 5/12/2017

SOURCE: ESA, ESRI.

OCSD Biosolids Master Plan . 150626

Figure 2
Project Area

Environmental Factors Potentially Affected

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

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

DETERMINATION

On the basis of this initial study:

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



Signature

7-11-17

Date

Environmental Checklist

Aesthetics

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
1. AESTHETICS — Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

a) Have a substantial adverse effect on a scenic vista?

Potentially Significant Impact. The project area is not officially designated as a scenic vista. However, Plant No. 2 is located within the City of Huntington Beach’s Coastal Zone and is adjacent to visual resources, facilities, and assets that contribute to the aesthetic characterization of the Coastal Zone (City of Huntington Beach, 2011). Adjacent visual resources that contribute to the coastal scenic vista in the project vicinity include Huntington State Beach, the Pacific Ocean, Talbert Marsh, and the SAR. The SAR Trail extends along the eastern boundary of Plant No. 1 and Plant No. 2, adjacent to the project area. Along the SAR Trail, there are intermittent views of Plant No. 1 and Plant No. 2 structures. The views are partially obstructed by existing landscaping and topography. Potential effects on scenic views will be evaluated in the PEIR and mitigation measures will be recommended, as necessary.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. Based on a review of the California Department of Transportation (Caltrans) List of Scenic Highways, the project area is not located along a State Scenic Highway (Caltrans, 2017). A segment of State Route 1, Pacific Coast Highway (PCH), is approximately 0.50-mile south of Plant No. 2 along the Pacific Ocean coastline. PCH is an Eligible Scenic Highway but is not officially designated. Further, the proposed facilities are not expected to be visible from motorists traveling along this portion of PCH due to the two-story residential housing located on the north side of PCH. Therefore, the proposed program would not impact scenic resources, which include rock outcroppings, trees, or historic buildings within a designated State Scenic Highway corridor. No impacts would occur. Therefore, this issue will not be further addressed in the PEIR.

- c) **Substantially degrade the existing visual character or quality of the site and its surroundings?**

Potentially Significant Impact. The proposed facilities would be constructed within the existing Plant No. 1 and Plant No. 2 properties. Plant No. 2 is located within the City of Huntington Beach's Coastal Zone and is adjacent to visual resources and assets that contribute to the visual characterization of the Coastal Zone. The proposed facilities would have an appearance similar to existing Plant No. 2 facilities; nonetheless, the PEIR will assess potential impacts to the visual character in the vicinity of the project area and recommend measures to reduce these potential impacts, if necessary.

- d) **Create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area?**

Potentially Significant Impact. Existing light sources within the project area include existing on-site uses associated with Plant No. 1 and Plant No. 2 facilities. New facilities associated with the proposed program have the potential to increase the amount of light and glare due to increased development within Plant No. 1 and Plant No. 2. This increase in light and glare could be significant. The PEIR will evaluate the potential increase in light and glare from facility development that could occur under the proposed BMP. This assessment will include an evaluation of the potential for denser and taller structures within the project area to create new sources of light and glare and the potential for spillover onto neighboring sensitive receptors. Mitigation measures will be recommended, where necessary.

References

- California Department of Transportation (Caltrans), 2017. Officially Designated Scenic Highway, Orange County. Available at:
http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/, accessed May 11, 2017.
- City of Huntington Beach, 2011. *City of Huntington Beach General Plan, Coastal Element*. October 2011.

Agricultural and Forest Resources

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
2. AGRICULTURAL AND FOREST RESOURCES —				
<p>In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.</p> <p>Would the project:</p>				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?**

No Impact. The project area is currently developed and void of any agricultural uses. The California Department of Conservation Important Farmland Map for Orange County identified the project area as urban and built-up land. Further, there is no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance located adjacent to the project area (CDC, 2017). Therefore, no impact to Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would occur. Therefore, this issue will not be further addressed in the PEIR.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. A Williamson Act Contract requires private landowners to voluntarily restrict their land to agriculture and compatible open-space uses. The project area is void of agricultural uses and does not include land enrolled in a Williamson Act Contract (CDC, 2004). Therefore, no impact would occur regarding conversion of existing agriculture uses or Williamson Act contracts. This issue will not be further addressed in the PEIR.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The proposed program would not conflict with existing zoning of forest land or cause rezoning of forest land, timberland, or timberland zoned for Timberland Production. The project area is currently zoned as Industrial Limited (IL) and Manufacturing (MP). The proposed program does not involve any changes to current General Plan land use or zoning designations for forest land, or timberland. Additionally, there are no timberland zoned production areas within the project area or surrounding areas. Therefore, no impact to forest land or timberland would occur, and this issue will not be further addressed in the PEIR.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The project area and surrounding areas contain no forest land. Thus, implementation of the proposed program would result in no impacts related to the loss or conversion of forest land to non-forest use. This issue will not be further addressed in the PEIR.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. Refer to responses 2(a) through 2(d). The project area is developed with wastewater treatment and conveyance facilities and impervious surfaces. No other changes to the existing environment would occur from implementation of the proposed program that could result in conversion of farmland to nonagricultural use or forest land to non-forest use. Thus, no impact would occur, and this issue will not be further discussed in the PEIR.

References

- CDC, 2004. *Agricultural Preserves, Williamson Act Parcels, Orange County, California*. 2004.
- California Department of Conservation (CDC), 2017. California Important Farmland Finder. Available at: <http://maps.conservation.ca.gov/ciff/ciff.html>, accessed May 11, 2017.

Air Quality

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
3. AIR QUALITY —				
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.				
Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

Potentially Significant Impact. The project area is located in the cities of Huntington Beach and Fountain Valley within the South Coast Air Basin (SCAB), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The SCAB is a 6,600-square-mile coastal plain bounded by the Pacific Ocean to the southwest and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The SCAB includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

As such, SCAQMD’s 2016 AQMP is the applicable air quality plan for the proposed program. Implementation of the proposed program has the potential to result in increases in pollutants and alter long-term local and regional air quality on and in the vicinity of the project area. Consistency of the proposed land uses with the South Coast Air Pollution Control District’s Air Quality Attainment Plans will be evaluated in the PEIR, and mitigation measures, to the extent necessary and available, will be recommended to reduce potentially significant air quality impacts.

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Potentially Significant Impact. Implementation of the proposed program may significantly alter long-term local and regional air quality conditions. Short-term impacts include construction

equipment exhaust emissions and fugitive dust from grading and soil disturbances. Long-term emissions associated with the proposed program are anticipated to primarily consist of mobile emissions from loading trucks, other automobiles and the proposed biosolids processes. The PEIR will focus on addressing local and regional impacts on sensitive land uses. Changes in motor vehicle travel associated with circulation modifications and changes to the locations of the biosolids end users will be evaluated in the PEIR to determine impacts to local and regional air quality. Mitigation measures will be recommended to reduce impacts, if necessary.

- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?**

Potentially Significant Impact. Implementation of the proposed program may contribute to significant cumulative alterations to long-term local and regional air quality conditions. As such, the proposed program has the potential to result in a cumulatively considerable net increase in criteria pollutants. Therefore, the PEIR will analyze the program's potential impacts regarding increases in criteria pollutants and the potential for the project to exceed quantitative thresholds for ozone precursors.

- d) Expose sensitive receptors to substantial pollutant concentrations?**

Potentially Significant Impact. Sensitive receptors in the project area include nearby residences and the SAR recreational bike path just east of Plant No. 1 and No. 2. Implementation of operational changes associated with the proposed program may significantly alter long-term local and regional air quality conditions, which has the potential to expose sensitive receptors to increased pollutant concentrations. Further analysis will be included in the PEIR. To the extent necessary, mitigation measures will be recommended to reduce potential significant air quality impacts to sensitive receptors.

- e) Create objectionable odors affecting a substantial number of people?**

Potentially Significant Impact. Implementation of the proposed changes to the processing, handling, storage and truck loading of biosolids and the addition of new processes associated with the proposed program may result in an increase in the emission of odors. The PEIR will discuss the potential odor sources and procedures for identifying significant odor impacts. Odor emitted from facilities year-round or only during certain times of the year will be discussed. Mitigation measures will be provided, if necessary.

References

SCAQMD, 2013. *Air Quality Management Plan*. Available at: [http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-\(february-2013\)/main-document-final-2012.pdf](http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-(february-2013)/main-document-final-2012.pdf), accessed May 11, 2017.

Biological Resources

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
4. BIOLOGICAL RESOURCES — Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife (CDFW) or U.S. Fish and Wildlife Service (USFWS)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS?**

Potentially Significant Impact. Potential sensitive biological resources within the project area could be significantly affected under the proposed program. The PEIR will analyze the potential for impacts to the sensitive habitats and species associated with the surrounding area. Such analysis will incorporate updated spatial data from the California Natural Diversity Database and will address recent changes to the status of federal and State listed species. If necessary, mitigation measures will be recommended to reduce potential significant impacts to biological resources.

- b) **Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS?**

No Impact. The majority of Plant No. 1 and Plant No. 2 is improved with paved surfaces; the project area consists solely of developed land. Adjacent land cover types in the vicinity of the project area include ornamental, disturbed habitat, and open water associated with the SAR. According to the *Orange County Water District Groundwater Replenishment System Final Expansion Project, Addendum No. 6*, prepared for both Plant No. 1 and No. 2 (OCWD, 2016); no sensitive vegetation communities were identified on Plant No. 1 or No. 2. Therefore, implementation of the proposed program would result in no impacts to sensitive natural communities. This issue will not be further discussed in the PEIR.

- c) **Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?**

No Impact. Plant No. 1 and No.2 are developed with wastewater treatment facilities. The SAR and Talbert Marsh are adjacent to the project area. The locations where the proposed project facilities and improvements would occur are paved and in a disturbed condition. All improvements would be implemented within Plant No. 1 and Plant No. 2 boundaries; therefore, the SAR and Talbert Marsh would not be directly impacted by the proposed program. Therefore, no impacts would occur and this issue will not be further discussed in the PEIR.

- d) **Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?**

Potentially Significant Impact. Plant No. 1 and Plant No. 2 are developed properties that have been improved with buildings, wastewater treatment facilities, and paved circulation and parking areas. As a result, the project area lacks suitable habitat and does not provide linkages to suitable habitat to support wildlife movement. However, the California least tern/western snowy plover nesting site (OCWD, 2016) is located approximately 50 feet south from where the construction of biosolids facilities on Plant No. 2 would occur; therefore, the PEIR will evaluate the potential for future development within the project area to affect the use of native wildlife nursery sites. Mitigation measures, if necessary, will be recommended in the PEIR to reduce potential significant impacts.

- e) **Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?**

Potentially Significant Impact. The City of Huntington Beach and the City of Fountain Valley do not have local tree preservation policies or ordinances (City of Huntington Beach, 1996 and 2017; City of Fountain Valley, 1995 and 2017). However, the City of Huntington Beach includes a General Plan policy (Policy ERC 2.1.10) to conduct construction activities to minimize adverse impacts on wildlife resources (City of Huntington Beach, 1996). Therefore, implementation of the proposed program may conflict with a local policy regarding the protection of biological resources. As a result, this issue will be further discussed in the PEIR.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The project area is located within the Orange County Habitat Conservation Plan/Natural Community Conservation Plan (HCP/NCCP) (CDFW, 2017). However, the project area is not within an area that is specifically protected or has additional conditions for conservation. Construction activities would be contained entirely within the Plant No. 1 and Plant No. 2 property, and the proposed program would not conflict with the provisions of the management of designated areas. No impacts would occur. As a result, this issue will not be further discussed in the PEIR.

References

- California Department of Fish and Wildlife (CDFW), 2017. NCCP Pan Summary- County of Orange (Central/Coastal) NCCP/HCP. Available at: <https://www.wildlife.ca.gov/Conservation/Planning/NCCP/Plans/Orange-Coastal>, accessed May 10, 2017.
- City of Fountain Valley, 1995. City of Fountain Valley General Plan, Conservation Element. March 21, 1995. Available at: <http://www.fountainvalley.org/DocumentCenter/Home/View/515>, accessed May 12, 2017.
- City of Fountain Valley, 2017. Fountain Valley Municipal Code. Available at: <http://qcode.us/codes/fountainvalley/>, accessed May 10, 2017.
- City of Huntington Beach, 1996. The City of Huntington Beach General Plan, Natural Resources Chapter. Amended 2004. Available at: http://www.huntingtonbeachca.gov/files/users/planning/environmental_resources_conservation_element.pdf, accessed on May 12, 2017.
- City of Huntington Beach, 2017a. Huntington Beach Charter and Codes. Available at: <http://www.qcode.us/codes/huntingtonbeach/>, accessed May 10, 2017/
- Orange County Water District (OCWD), 2016. *Groundwater Replenishment System Final Expansion Project, Addendum No. 6, Final EIR*. August 2016.

Cultural Resources

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
5. CULTURAL RESOURCES — Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred of dedicated cemeteries?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?**

Potentially Significant Impact. A cultural resources evaluation for the potential of historic properties within the project area will be conducted. Potential impacts to historical resources will be discussed and any necessary mitigation measures will be provided in the PEIR.

- b) **Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?**

Potentially Significant Impact. A record search and field survey will be conducted to determine the potential for archaeological resources within the project area. Potential impacts to archaeological resources will be assessed, and mitigation measures will be recommended in the PEIR, as necessary.

- c) **Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?**

Potentially Significant Impact. Paleontological resources may be impacted during construction activities on the project area because the existing onsite geologic formations have produced fossil localities in similar-aged formations. A records search will be conducted within the project area. Potential impacts to paleontological resources will be assessed, and mitigation measures will be recommended in the PEIR.

d) Disturb any human remains, including those interred outside of dedicated cemeteries?

Potentially Significant Impact. No human remains are known to exist within or adjacent to the project area, and it is unlikely that the proposed program would disturb unknown human remains. However, because the proposed program involves ground-disturbing activities, it is possible that such actions could unearth, expose, or disturb previously unknown human remains. Potential impacts to human remains associated with the future development of the proposed program will be assessed in the PEIR. The Native American Heritage Commission will be contacted regarding existing resources in the project area. Mitigation measures will be recommended in the PEIR, as necessary, to reduce potentially significant impacts to human remains.

Geology, Soils, and Seismicity

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
6. GEOLOGY and Soils —				
Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:**
- i) **Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)**

Potentially Significant Impact. The Alquist-Priolo Earthquake Zoning Act (Alquist-Priolo Act) requires the delineation of fault zones along active faults in California. The purpose of the Alquist-Priolo Act is to regulate development on or near active fault traces to reduce hazards associated with fault rupture. The Alquist-Priolo Earthquake Fault Zones (AP Zones) are the regulatory zones that include surface traces of active faults. Active or potentially active faults

within Orange County are the San Andreas fault, San Jacinto fault, Whittier-Elsinore fault, Newport-Inglewood fault and Palos Verdes fault. The project area is located within an area with active splays of the Newport-Inglewood fault.

Plant No. 1 and No. 2 are not within a designated AP Zone. However, recent geotechnical studies conducted on Plant No. 2 (Kleinfelder, 2017) have identified the presence of fault traces associated with the Newport-Inglewood fault zone directly under Plant No. 2. The PEIR will evaluate potential fault rupture that could affect development on Plant No. 2. Mitigation measures will be developed to address potential impacts from rupture of known fault traces.

ii) Strong seismic ground shaking?

Potentially Significant Impact. The project area is located in a seismically active region and is subject to strong ground shaking. Future development under the proposed program has the potential to expose persons to hazards from strong seismic ground shaking. In the future, the project area could be affected by major seismic events following active fault systems in other regions of California. The principal potential earthquake hazard for the project area is ground shaking, which could cause damage to buildings and infrastructure. The distance between Plant No. 1 and No.2, and major faults minimizes this potential. The PEIR will evaluate geologic hazards that could affect future development within the project area. Mitigation measures will be developed to address potential impacts from strong seismic ground shaking.

iii) Seismic-related ground failure, including liquefaction?

Potentially Significant Impact. Liquefaction is a phenomenon where unconsolidated and/or near saturated soils loses cohesion and are converted to a fluid state as a result of severe vibratory motion. The relatively rapid loss of soil during strong earthquake shaking results in the temporary fluid-like behavior of the soil.

The project area is located within a liquefaction hazard zone due to its younger alluvial soils (City of Huntington Beach, 2009; DOC, 1997; OCWD, 2016). Thus, in the event of a large earthquake with a high acceleration of seismic shaking, the potential for liquefaction exists. Future development in accordance with the proposed program has the potential to expose persons and structures to seismic-related ground failure such as liquefaction. Therefore, the PEIR will evaluate this potential effect and include mitigation measures, as applicable.

iv) Landslides?

No Impact. The implementation of the proposed program would not result in landslides. Landslides are deep-seated ground failures (several tens to hundreds of feet deep) in which a large section of a slope detaches and slides downhill. The project and surrounding areas have relatively flat terrain that has previously been graded and developed. There is no known history of landsliding in the general area of Plants 1 and 2. Further, the project area is not within a State-Designated Seismic Hazard Zone for Earthquake-Induced Landslides (DOC, 1997). Therefore, landsliding is not considered a hazard within the project area, and no impacts would occur. This issue will not be further discussed in the PEIR.

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

Potentially Significant Impact. Soil exposed by construction activities for the proposed program could be subject to erosion if exposed to heavy rain, winds, or other storm events. Construction of future facilities associated with the proposed program may result in potentially significant impacts regarding soil erosion or the loss of topsoil. The PEIR will address potential program impacts associated with erosion, and mitigation will be recommended, as necessary.

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

Potentially Significant Impact. Future program development may result in potentially significant impacts regarding unstable soils. The PEIR will evaluate the potential unstable soils impacts and mitigation measures will be developed, as necessary, to reduce potential significant impacts.

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

Potentially Significant Impact. Expansive soils are predominantly comprised of clays, which expand in volume when water is absorbed and shrink when the soil dries. Expansion is measured by shrink-swell potential, which is the volume change in soil with a gain in moisture. Soils with a moderate to high shrink-swell potential can cause damage to roads, buildings, and infrastructure (USDA, 2017). Future facilities within the project area may be exposed to potential significant impacts regarding expansive soil. Therefore, the PEIR will discuss this issue and provide mitigation measures, as necessary.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. The proposed program does not include septic tanks or alternative waste disposal systems. As a result, there is no potential for soil failure associated with the installation of septic tanks or alternative waste disposal systems. No impact would occur, and this issue will not be further discussed in the PEIR.

References

City of Huntington Beach, 2009. *City of Huntington Beach, Environmental Hazards Element*. Amended 2009.

Department of Conservation (DOC), 1986. *State of California, Special Studies Zones, Newport Beach Quadrangle, Official Map*. July 1, 1986.

DOC, 1997. *State of California Seismic Hazard Zones, Newport Beach Quadrangle Official Map*. April 17, 1997.

Kleinfelder, 2017. *Faulting Study Results Proposed Low-Flow and Plant Water Pump Stations Ocean Outfall System Rehabilitation Orange County Sanitation District Plant No. 2, Technical Memorandum*. Revised April 17, 2017.

Orange County Water District (OCWD), 2016. *Groundwater Replenishment System Final Expansion Project, Addendum No. 6, Final EIR*. August 2016.

United States Department of Agriculture (USDA), 2017. Natural Resources Conservation Service, Web Soil Survey, Available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>, accessed on May 10, 2017.

Greenhouse Gas Emissions

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
7. GREENHOUSE GAS EMISSIONS — Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

Potentially Significant Impact. Future program development has the potential to increase the generation of greenhouse gas emissions, which may have a significant impact on the environment. Therefore, the PEIR will estimate the project’s direct and indirect emissions of greenhouse gases and evaluate the program’s potential to generate a significant greenhouse gas impact.

- b) **Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

Potentially Significant Impact. Future project development has the potential to increase greenhouse gas emissions and as such, has the potential to result in levels of emissions that may conflict with applicable local air quality/greenhouse gas plans and policies. The PEIR will assess whether or not the proposed program will conflict with any applicable plan, policy or regulations related to the reduction of greenhouse gas emissions.

Hazards and Hazardous Materials

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
8. HAZARDS AND HAZARDOUS MATERIALS — Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**

Potentially Significant Impact. The proposed program includes biosolids uses that may result in the long-term use and/or transport of hazardous materials. Furthermore, short-term construction activities would involve transport, use, and disposal of hazardous materials such as solvents, oils, grease, and cleaning fluids as well as asbestos and lead-based paint associated with demolition. In addition, hazardous materials may be needed for fueling and servicing construction equipment on the site. The transport, use, or storage of hazardous materials associated with the proposed land uses will be assessed in the PEIR. Past hazardous materials incidents will be investigated in the

PEIR to determine their potential effect on the project area. This potential may be significant, and mitigation measures will be provided, if necessary.

- b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

Potentially Significant Impact. As described in CEQA Checklist Item 8.a, potential development associated with the program would include the construction and operation of biosolids handling facilities that may use and/or transport hazardous materials and the demolition of structures that could include hazardous materials such as asbestos and lead-based paint. Therefore, the potential exists for there to be upset/accident conditions involving the release of hazardous materials into the environment. The PEIR will address this issue in more detail and will provide mitigation measures, as necessary.

- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?**

Potentially Significant Impact. Plant No. 2 is not located within 0.25 mile of a school. However; the Robert Gisler School is located approximately 0.15 mile west of Plant No.1. The proposed program may include uses that have the potential to emit hazardous emissions or handle hazardous or acutely hazardous materials and substances. The PEIR will analyze the potential for this to occur within one-quarter mile of the Robert Gisler School. Mitigation measures will be developed, as necessary to reduce potential impacts to schools from hazardous materials.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

Potentially Significant Impact. The proposed project would be implemented entirely within Plant No. 1 and Plant No. 2. A review of the Department of Toxic Substances Control's (DTSC) Hazardous Waste and Substances List – Site Cleanup (Cortese List) indicates that identified hazardous material sites are not located within the project area (DTSC, 2007a). A database search of hazardous materials sites using the online DTSC EnviroStor and State Water Resources Control Board (SWRCB) GeoTracker databases identified Plant No. 2 as having a permitted underground storage tank (UST) and two closed leaking underground storage tank (LUST) cases (DTSC, 2007b; SWRCB, 2015). Further, Plant No. 1 has one open LUST case. The PEIR will provide a discussion of potential impacts to the public or environment associated with implementation of the proposed program. Mitigation measures will be provided, if necessary.

- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?**

No Impact. The nearest airport to the project area is the John Wayne Airport, located approximately 4 miles east of Plant No. 1 and 8 miles to the northeast of Plant No. 2, at 18601

Airport Way in the unincorporated area of the Orange County. Therefore, the proposed program is not located within an airport land use plan or within 2 miles of a public airport or public use airport. No impact would occur, and this issue will not be further discussed in the PEIR.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

No Impact. No private airstrips exist in the vicinity of the project area. Therefore, the proposed program would not result in a safety hazard for people residing or working in the project area. No impact would occur, and this issue will not be further discussed in the PEIR.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Potential Significant Impact. The proposed program may result in increased truck load intensities that could increase traffic and physically interfere with an adopted emergency response plan. An example is the potential modification of the levels of services at intersections in the vicinity of Plant No. 2 along Brookhurst Street that could physically interfere with emergency responses or emergency evacuations. These potential effects will be addressed in the PEIR, and mitigation measures will be provided, as necessary.

h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

No Impact. The project area is located within the developed Plant No. 1 and Plant No. 2. Further, the Plant No. 2 property is developed and located adjacent to the coastal zone. Both Plants are not located within or in the vicinity of a high fire hazard zone. The project areas are not located adjacent to wildlands or near a substantial amount of dry brush that could expose people to wildfire risks. No impacts would occur, and this issue will not be further discussed in the PEIR.

References

Department of Toxic Substances Control (DTSC), 2007a. DTSC's Hazardous Waste and Substances Site List- Site Cleanup (Cortese List). Available at: http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm, accessed May 10, 2017.

DTSC, 2007b. EnviroStor, Map Location of Interest. Available at: <http://www.envirostor.dtsc.ca.gov/public/>, accessed May 10, 2017.

State Water Resources Control Board (SWRCB), 2015. GeoTracker. Available at: <https://geotracker.waterboards.ca.gov/>, accessed May 10, 2017.

Hydrology and Water Quality

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
9. HYDROLOGY AND WATER QUALITY — Would the project:				
a) Violate any water quality standards or waste discharge requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

a) Violate any water quality standards or waste discharge requirements?

Potentially Significant Impact. The proposed project would require earthwork activities such as site preparation, grading, stockpiling of soils and excavation. These construction activities would involve the disturbance of surface soils. Once disturbed, these soils could be exposed to the effects of wind and water erosion causing sedimentation in stormwater runoff. Construction would also involve use of chemicals and solvents such as fuel and lubricating grease for motorized heavy equipment. Inadvertent spills or releases of such chemicals could cause an adverse water quality impact. The PEIR will qualitatively address the water quality standards and

waste discharge requirements and assess the potential for impacts from future implementation of proposed projects. Mitigation measures will be recommended, if necessary.

- b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?**

Potentially Significant Impact. The proposed program could result in an impact to groundwater supplies. During construction, the project area would be watered during dry and windy conditions to prevent dust and debris from migrating off-site. Further, groundwater would be encountered in excavations below approximately 3 feet during construction of the proposed projects. Dewatering as part of the proposed program could deplete groundwater supplies or interfere substantially with groundwater recharge. The PEIR will address these issues and provide mitigation measures, if necessary, to reduce potential impacts.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?**

Potentially Significant Impact. Development associated with the proposed program may result in an increased amount of runoff during construction and operational activities. Construction activities could increase runoff that could lead to erosion or siltation within or adjacent to the project area. Operational activities associated with future facilities could alter existing drainage patterns that could cause erosion or siltation. The PEIR will address the potential for future projects to cause erosion due to drainage pattern alterations within or adjacent to the project area. As necessary, mitigation measures will be recommended to reduce potential impacts.

- d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?**

Potentially Significant Impact. Development associated with the proposed program may result in an increased amount of runoff during construction and operational activities. Construction activities could increase runoff that could lead to flooding within or adjacent to the project area. Operational activities associated with future facilities could alter existing drainage patterns that could cause flooding. The PEIR will address the potential for future development to substantially increase the rate or amount of surface runoff that could flood areas within or adjacent to the project area. As necessary, mitigation measures will be recommended to reduce potential impacts.

- e) **Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?**

Potentially Significant Impact. The proposed program may result in development of facilities that could affect existing infrastructure systems, including existing flood control facilities. The implementation of new structures within currently undeveloped areas on Plant No. 1 and Plant No. 2 is anticipated to result in higher runoff volumes during storm events, as a result of the increase in impervious surfaces within these areas, which may require additional drainage facilities. Runoff from these impervious surfaces may carry surface pollutants to downstream areas and may affect water quality. The PEIR will assess the program's potential impacts to existing or planned stormwater drainage systems as well as the potential for future development to contribute substantial additional polluted runoff.

- f) **Otherwise substantially degrade water quality?**

Potentially Significant Impact. The proposed program may result in the degradation of water quality during construction and operational activities. The PEIR will address the potential water quality impacts and, as necessary, provide mitigation measures to reduce impacts.

- g) **Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?**

No Impact. The FEMA Flood Insurance Rate Map (FIRM) for the project area (FIRM Nos. 06059C0264J and 06059C0262J) shows that the project area is located within a Zone X “Other Flood Areas” location. This area is a 100-year flood zone that is protected by a levee (FEMA, 2009a; FEMA, 2009b); however, because no housing is proposed, there would be no impacts regarding placement of housing within a flood zone. Therefore, this issue will not be further discussed in the PEIR.

- h) **Place within a 100-year flood hazard area structures that would impede or redirect flood flows?**

Potentially Significant Impact. As stated above in response g), the FEMA FIRMs for the project area shows the project area is located within the Zone X, 100-year flood zone. The PEIR will evaluate the potential to expose structures within the 100-year flood hazard area, and mitigation measures will be recommended, as necessary to reduce flood related risks.

- i) **Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?**

Less-than-Significant Impact. The project area is not located in a City-designated dam inundation flood zone (Huntington Beach, 2009; City of Fountain Valley, 1995). Refer to discussion h) above. Because the project area is located along the SAR levee, the proposed program may have the potential to expose people or structures to hazards resulting from failure of

the levee that separates Plants 1 and 2 from the Santa Ana River. Potential impacts on the proposed program from inundation from a potential levee failure will be addressed in the PEIR.

j) Inundation by seiche, tsunami, or mudflow?

Potentially Significant Impact. A seiche is the sloshing of a closed body of water from earthquake shaking (USGS, 2016a). No closed bodies of water are located near the project area. Therefore, the implementation of the proposed program would not expose people or structures to a significant risk of loss, injury or death involving inundation by seiche.

A tsunami is a sea wave of local or distant origin that results from large-scale seafloor displacements associated with earthquakes, major submarine slides or exploding volcanic islands (USGS, 2016b). An event such as an earthquake creates a large displacement of water resulting in a rise or mounding at the ocean surface that moves away from this center as a sea wave. The project area is located approximately 0.5-mile north of the Pacific Ocean and based on the tsunami inundation map, the site is located within the tsunami risk zone. The PEIR will address the potential impact of a tsunami on the proposed facilities. The PEIR will also address the potential for mudflow impacts from future development, and mitigation measures will be recommended, as necessary.

References

- City of Fountain Valley, 1995. *General Plan, Public Safety Element*. January 25, 1995.
- City of Huntington Beach, 2009. *General Plan, Environmental Hazards Element*. Amended 2009.
- FEMA, 2009a. FEMA Flood Map Service Center, Huntington Beach, CA. Available at: <https://msc.fema.gov/portal>, accessed May 10, 2017.
- FEMA, 2009b. FEMA Flood Map Service Center, Fountain Valley, CA. Available at: <https://msc.fema.gov/portal>, accessed May 10, 2017.
- USGS, 2017a. Seismic Seiches. Available at: <https://earthquake.usgs.gov/learn/topics/seiche.php>, accessed May 10, 2017.
- USGS, 2017b. Earthquake Glossary, Tsunami. Available at: <https://earthquake.usgs.gov/learn/glossary/?term=tsunami>, accessed May 10, 2017.
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Land Use and Land Use Planning

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
10. LAND USE AND LAND USE PLANNING — Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

a) Physically divide an established community?

No Impact. The proposed program does not propose any action that could divide an established community. The physical division of an established community generally refers to the construction of a feature such as an interstate highway or railroad tracks, or removal of a means of access, such as a local road or bridge that would impact mobility within an existing community or between a community and outlying area. Given the proposed program would construct facilities on the existing Plant No. 1 and Plant No. 2 properties, the proposed program would result in no impact to the physical division of an established community. Therefore, this issue will not be further discussed in the PEIR.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Potentially Significant Impact. The majority of the proposed facilities would be implemented within Plant No. 2. Plant No. 2 is located within the City of Huntington Beach’s Coastal Zone and is subject to Local Coastal Plan (LCP). The LCP is divided into two components: (1) a coastal element and (2) an implementation program. The Coastal Element found in the City of Huntington Beach’s General Plan includes a land use plan and policies to be used by decision makers when reviewing coastal-related issues and proposed developments within the Coastal Zone boundary. The implementation program includes the zoning ordinances, zoning district maps, specific plans, and other implementing actions that must comply with the LCP. The project area is designated under P (Public) land uses and is zoned for IL (Industrial Limited) and Residential Agriculture with an Oil Overlay (RA-O). The maximum allowable height in the IL zone is 40 feet; however, a variance may be granted for heights up to 50 feet. In addition, the IL zone provides an exception to heights for certain types of structures, including 4-foot high parapet

walls. The proposed facilities may have heights that would exceed the building height allowed in the IL zoning code (City of Huntington Beach, 2017). The PEIR will evaluate the proposed facilities' potential to conflict with the LCP. Mitigation measures will be recommended to reduce potential conflicts, if necessary.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

No Impact. Refer to discussion f) within the Biological Resources section above. This issue will not be further discussed in the PEIR.

References

City of Huntington Beach, 2011. *General Plan, Coastal Element*. Amended 2011.

City of Huntington Beach, 2013. *General Plan, Land Use Element*. Amended 2013.

City of Huntington Beach, 2017. Local Coastal Program. Available at:
<http://www.huntingtonbeachca.gov/government/departments/planning/local-coastal-program/>, accessed May 10, 2017.

Mineral Resources

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
11. MINERAL RESOURCES — Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?**

No Impact. According to USGS’ Mineral Resources Data System (USGS, 2017), the project area is not identified as a known mineral resource area and does not have a history of mineral extraction uses. In addition, according to the State of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources, 18 oil well exists on Plant No. 2 and one oil well on Plant No. 1; however, these wells are “plugged” and therefore are no longer active (DOC, 2016). The proposed program would not result in the loss of availability of a known mineral resource, and no impacts would occur. This issue will not be further discussed in the PEIR.

- b) **Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?**

No Impact. The City of Huntington Beach and City of Fountain Valley General Plan (City of Huntington Beach, 2006; City of Fountain Valley, 1995) do not identify the project area as a mineral resource zone. Therefore, the implementation of the proposed program would not result in the loss of a locally important mineral resource recovery site. No impacts would occur, and this issue will not be further discussed in the PEIR.

References

California Department of Conservation, 2016. Division of Oil, Gas, and Geothermal Resources Well Finder. Available at: <http://www.conservation.ca.gov/dog/Pages/Wellfinder.aspx>, accessed May 10, 2017.

City of Fountain Valley, 1995. *General Plan, Conservation Element*. January 25, 1995.

City of Huntington Beach, 2006. *General Plan, Natural Resources Element*. Amended 2006.

United States Geologic Survey (USGS), 2017. Mineral Resources Data System. Available at: <https://mrdata.usgs.gov/mineral-resources/mrds-us.html>, accessed May 10, 2017.

Noise

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
12. NOISE — Would the project result in:				
a) Exposure of persons to or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project located in the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

- a) **Exposure of persons to or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?**

Potentially Significant Impact. Construction and operational activities associated with the program development have the potential to create noise impacts that may adversely affect surrounding land uses. Noise levels from mobile and stationary sources may increase where new or an increased concentration of facilities are proposed. The PEIR will evaluate potential noise impacts and a noise impact analysis will be conducted. The noise impact analysis will analyze noise levels associated with stationary and mobile construction equipment and associated with stationary and mobile operational activities. The PEIR will include appropriate mitigation measures to reduce potential noise impacts.

- b) **Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?**

Potentially Significant Impact. The proposed program has the potential to create excessive groundborne vibration impacts that may adversely affect neighboring land uses. These impacts could occur during construction activities or operational activities. The PEIR will evaluate

potential construction and operational vibration impacts, and mitigation measures will be recommended to reduce potential impacts.

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Potentially Significant Impact. Implementation of the proposed program has the potential to create stationary and mobile noise impacts that could adversely affect surrounding land uses. These increases will occur as development occurs within the project area. The PEIR will evaluate potential long-term noise impacts associated with the program and recommend mitigation measures, as necessary, to reduce potential impacts.

d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Potentially Significant Impact. Construction activities associated with the proposed program have the potential to create temporary increases in noise levels. Potential noise impacts that could affect surrounding land uses will be discussed. The PEIR will evaluate potential construction noise impacts associated with the specific projects and recommend mitigation measures to reduce potential impacts, as necessary.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. As described above in impact analysis e), Hazards and Hazardous Materials, the nearest airport to the project area is the John Wayne Airport, located approximately 4 miles to the east of Plant No. 1. The proposed program is not located within an airport land use plan or within 2 miles of a public airport or public use airport. No impact would occur, and this issue will not be further discussed in the PEIR.

f) For a project located in the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. The project area is not located within the vicinity of a private airstrip. No impacts would occur, and this issue will not be further discussed in the PEIR.

Population and Housing

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
13. POPULATION AND HOUSING — Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

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

No Impact. The proposed program includes a modification to the OCSD biosolids treatment. The program would not increase the current capacity of the wastewater treatment plant. Therefore, the proposed program would not induce population growth in the area serviced by the OCSD wastewater treatment plants.

- b) **Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?**

No Impact. There are no existing residences on Plant No. 1 or Plant No. 2, and no residences would be condemned or displaced by the proposed program. Therefore, the proposed project would not displace people or housing, and there would be no impact. This issue will not be further discussed in the PEIR.

- c) **Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?**

No Impact. The proposed program would not remove housing and would not displace people, necessitating the construction of replacement housing elsewhere. Therefore, no impacts would occur, and this issue will not be further discussed in the PEIR.

Public Services

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
14. PUBLIC SERVICES — Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:				
i) Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
v) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

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

- i) **Fire protection?**

No Impact. An existing collections facility on Plant No. 2 could be relocated to Plant No. 1; however, implementation of this collections storage lot would not change existing demand for fire protection services.

A majority of the proposed facilities would be implemented within Plant No. 2 in the City of Huntington Beach. The Huntington Beach Fire Department (HBFD) provides fire protection within the City (City of Huntington Beach, 2017a). The nearest station to the project area is Station 4 located approximately 1 mile northwest at 21441 Magnolia St. The proposed program would not change existing demand for fire protection services because operation would not result in a substantial increase in employees or population. Therefore, the proposed program would not substantially increase the need for new fire department staff or new facilities, and because no new facilities would be required, no construction impacts due to new facilities would occur. This issue will not be further discussed in the PEIR.

ii) Police protection?

No Impact. An existing collections facility on Plant No. 2 could be relocated to Plant No. 1; however, implementation of this collections lot would not change existing demand for police protection services.

A majority of the proposed facilities would be implemented within Plant No. 2 in the City of Huntington Beach. The City of Huntington Beach is provided with police protection services by the Huntington Beach Police Department (HBPD) (City of Huntington Beach, 2017b). The police station is located 3.5 miles northwest of the project area at 2000 Main Street. The proposed program does not include new homes or businesses that would require any additional services or extended response times for police protection services beyond those required with the existing on-site uses. Therefore, the HBPD would not be required to expand or construct new police stations to serve the proposed program. No impacts would occur with the proposed program because additional police protection facilities would not be needed. This issue will not be further discussed in the PEIR.

iii) Schools?

No Impact. The project area lies within the Huntington Beach Union High School District (HBUHSD) service area and Fountain Valley School District (FVSD) (HBUHSD, 2017; FVSD, 2017). The student generation rates within HBUHSD and FVSD would not be substantially affected or altered by the redevelopment of the proposed project. The proposed project would not affect local school enrollment. No school facilities would be impacted by the proposed program. In addition, no construction impacts would occur with the proposed program because new or expanded school facilities would not be needed. This issue will not be further discussed in the PEIR.

iv) Parks?

No Impact. The proposed program would not interfere with or have adverse impacts on parks. The proposed program would not involve new housing and would not result in a substantial increase in employees that would need new parks. The project area is located adjacent to the SAR and Talbert Regional Park; however, construction and operation of the proposed program would not impact the use of nearby recreational uses. This issue will not be further discussed in the PEIR.

v) Other public facilities?

No Impact. The proposed program would not introduce inhabitants to the project area that would require additional public facilities. No impacts would occur with the proposed program because public facilities would not be needed. This issue will not be further discussed in the PEIR.

References

- City of Huntington Beach, 2017a. Fire Department. Available at: <http://www.huntingtonbeachca.gov/government/departments/fire/>, accessed March 15, 2017.
- City of Huntington Beach, 2017b. Police Department. Available at: <http://www.huntingtonbeachca.gov/government/departments/pd/>, accessed March 15, 2017.
- Fountain Valley School District (FVSD), 2017. Fountain Valley School District. Available at: <http://www.fvsd.us/>, accessed May 10, 2017.
- Huntington Beach Union High School District (HBUHSD), 2017. Huntington Beach Union High School District. Available at: <http://www.hbusd.edu/>, accessed May 10, 2017.
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Recreation

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
15. RECREATION:				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Evaluation

Would the project:

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

No Impact. Within the vicinity of the project area, the cities of Huntington Beach and Fountain Valley and Orange County Parks (OC Parks) maintains the parks and provides recreational services. The nearest recreational facility is the SAR Trail and Talbert Marshlands located adjacent to Plant No. 2. The proposed program would not directly introduce new residents within the City of Huntington Beach or Fountain Valley. Therefore, the proposed program would not increase the use of these existing recreational facilities within the cities and would result in no impact to the physical deterioration of recreational facilities. This issue will not be further discussed in the PEIR.

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

No Impact. The implementation of the proposed program would not require recreational facilities to serve the projects associated with the proposed program. Therefore, the proposed program would not result in an adverse physical effect on the environment from the construction or expansion of additional recreational facilities because the proposed program would not require new or expanded recreational facilities. This issue will not be further discussed in the PEIR.

References

OC Parks, 2017. Orange County Parks. Available at: <http://www.ocparks.com/>, accessed May 10, 2017.

Transportation and Traffic

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
16. TRANSPORTATION/TRAFFIC —				
Would the project:				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

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

Potentially Significant Impact. Program development would result in increased truck trips that may result in traffic impacts that may conflict with an existing plan, policy, or ordinance. The PEIR will evaluate existing applicable plans, ordinances and/or policies related to traffic performance. Mitigation measures will be recommended, if necessary, to reduce potential traffic impacts.

- b) **Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?**

Potentially Significant Impact. Development of the proposed program would result in increased truck trips that may conflict with a congestion management program (CMP). The PEIR will include a discussion of the any local CMP facilities and will recommend mitigation measures, if necessary.

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

No Impact. The project area is not located within the Airport Influence Area of any nearby airports. The nearest airport to the project area is John Wayne Airport, a public airport approximately 4 miles east of Plant No. 1. The proposed program does not involve any aviation components or structures at heights that would potentially pose an aviation concern. No program activities would alter the existing air traffic patterns, levels, or locations that result in safety risks. No impact would occur, and this issue will not be further discussed in the PEIR.

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

No Impact. The proposed program would be implemented entirely within Plant No. 1 and Plant No. 2, and does not include the construction or design of any roadway infrastructure that would cause a safety risk to vehicle operations. Neither construction nor operation of the proposed program components would adversely alter the physical configuration of the existing roadway network serving the project area, and would not introduce unsafe design features. In addition, the proposed program would not introduce uses (types of vehicles) that are incompatible with existing uses already served by the area's road system. There would be no impact, and this issue will not be further discussed in the PEIR.

e) Result in inadequate emergency access?

Potentially Significant Impact. Implementation of the proposed program would result in the construction of various individual facilities that may require additional truck and other vehicle trips accessing the project area. There is the potential for increased truck traffic to impede adequate emergency access. These potential impacts will be analyzed in the PEIR and mitigation measures will be recommended, if necessary.

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

Potentially Significant Impact. The proposed program would increase vehicle trips in the project vicinity, and these additional trips may conflict with adopted policies, plans or programs regarding public transit, bicycle or pedestrian facilities. The PEIR will evaluate the potential for future facilities' operations conflict with adopted plans, policies, and programs. Mitigation measures will be recommended, if necessary.

Tribal Cultural Resources

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
17. Tribal Cultural Resources —				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discussion

On May 3, 2017, OCSD sent AB 52 notification letters related to the proposed program to the following Native American Tribes who have requested to be informed on activities conducted by the OCSD, under PRC Section 21080.3.1: San Gabriel Band of Mission Indians, Gabrieleño Band of Mission Indians – Kizh Nation, and Juaneño Band of Mission Indians/Acjachemen Nation. The AB 52 letters were sent to the Tribes pursuant to Public Resources Code Section 21080.3.1 and included a description of the proposed program, a map depicting the project area, and contact information for OCSD.

Environmental Evaluation

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- a) **Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)**

Potentially Significant Impact. Tribal cultural resources listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources are not currently known to occur within the project area. However, the project area is considered highly sensitive for subsurface archaeological resources. Therefore, there is a potential for discovery of currently unknown tribal cultural resources during ground-disturbing activities. The PEIR will evaluate potential impacts, and mitigation measures will be provided, if necessary.

- b) **A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

Potentially Significant Impact. There are currently no known resources that would be considered significant pursuant to subdivision (c) of Public Resources Code Section 5024.1 within the project area. However, as discussed above, the project area is considered highly sensitive for subsurface archaeological resources. Therefore, there is a potential for discovery of currently unknown resources during ground-disturbing activities. The PEIR will evaluate potential impacts, and mitigation measures will be provided, if necessary.

Utilities and Service Systems

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
18. UTILITIES AND SERVICE SYSTEMS —				
Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

- a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?**

Potentially Significant Impact. Implementation of the proposed program could increase the amount of wastewater generated within the project area. The PEIR will analyze potential impacts regarding wastewater and wastewater treatment requirements of the Santa Ana Regional Water Quality Control Board. Mitigation measures will be recommended, if necessary.

- b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?**

Less than Significant Impact. Project development could increase the amount of wastewater generated within the project area and increase the amount of potable water demand on Plant No. 2. It is not anticipated that additional waste and wastewater treatment facilities would be required to serve the future uses associated with the proposed program. Potential impacts would be less than significant.

- c) **Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?**

Potentially Significant Impact. Implementation of the proposed facilities could increase the amount of impervious surfaces within the project area. This increase in impervious surfaces could increase the amount of storm water runoff and require the construction of new storm water drainage facilities on the project site. An evaluation of the potential increase in storm water generation will be provided in the PEIR as well as identification of new facilities that may be required to adequately serve the program area. The potential environmental effects associated with the future development of the new facilities will be addressed in the PEIR. Mitigation measures will be recommended in the individual topical issue evaluations, if necessary.

- d) **Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?**

Potentially Significant Impact. Development of the proposed projects associated with the proposed program may modify potable water demand within Plant No. 2. This change in demand may impact the existing available water supplies. The PEIR will address the change in water demand and the need for additional sources of water supply to adequately serve the proposed program. Mitigation measures will be recommended, if necessary.

- e) **Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?**

No Impact. The proposed program includes projects associated with the biosolids process. The implementation of the proposed program will not have an adverse effect on the capacity of the existing Plant No. 2 treatment plant. Therefore, there would be no impact, and this issue will not be further discussed in the PEIR.

- f) **Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?**

Potentially Significant Impact. Construction and implementation of the proposed program is not anticipated to generate a significant amount of solid waste. However, the PEIR will discuss existing capacity of landfills currently serving the project area. The PEIR will evaluate potential impacts and mitigation measures will be recommended, if necessary.

- g) **Comply with federal, state, and local statutes and regulations related to solid waste?**

Potentially Significant Impact. Statewide policies regarding solid waste have become progressively more stringent, reflecting Assembly Bill 939, which requires local government to develop waste reduction and recycling policies and meet mandated solid waste reduction targets. The PEIR will address the potential increase in the generation of solid waste and the potential for

program development to comply with federal, state, and local solid waste statutes and regulations. Mitigation measures will be recommended, if necessary.

Energy

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporation</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
ENERGY — Would the project:				
a) Result in a substantial increase in overall or per capita energy consumption?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Result in wasteful or unnecessary consumption of energy?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Require or result in the construction of new sources of energy supplies or additional energy infrastructure capacity the construction of which could cause significant environmental effects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Conflict with applicable energy efficiency policies or standards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

a) Result in a substantial increase in overall or per capita energy consumption?

Potentially Significant Impact. The proposed program could require significant amounts of energy during construction and operation of the proposed facilities. The PEIR will evaluate potential impacts and mitigation measures will be recommended, if necessary.

b) Result in wasteful or unnecessary consumption of energy?

Potentially Significant Impact. Implementation of the proposed program is not anticipated to result in a wasteful or unnecessary consumption of energy; however, energy consumption may increase as new facilities are implemented. The PEIR will evaluate potential impacts and mitigation measures will be recommended, if necessary.

c) Require or result in the construction of new sources of energy supplies or additional energy infrastructure capacity the construction of which could cause significant environmental effects?

Potentially Significant Impact. Implementation of the proposed program could increase energy demands resulting in the need for new sources of energy production or upgrades to the Central Generation Facility. The construction of new or expanded energy facilities could result in environmental effects. The PEIR will recommend mitigation measures, if necessary.

d) Conflict with applicable energy efficiency policies or standards?

Potentially Significant Impact. It is not anticipated the proposed program would conflict with energy efficiency policies or standards; nonetheless, the PEIR will evaluate potential impacts.

Mandatory Findings of Significance

<i>Issues (and Supporting Information Sources):</i>	<i>Potentially Significant Impact</i>	<i>Less Than Significant with Mitigation Incorporated</i>	<i>Less-Than-Significant Impact</i>	<i>No Impact</i>
19. MANDATORY FINDINGS OF SIGNIFICANCE —				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Evaluation

Would the project:

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

Potentially Significant Impact. As construction activities occur adjacent to the Talbert Marsh south of Plant No. 2, potential impacts to sensitive plant and wildlife species and habitat could occur. Further, as excavation occurs, historical resources may be impacted. The PEIR will address the project’s potential impact on biological and cultural resources, and mitigation measures will be recommended, where necessary.

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

Potentially Significant Impact. Implementation of the proposed program could contribute considerably to cumulative impacts. Each of the issues identified above as potentially significant will be evaluated for cumulative impacts within the PEIR. Mitigation measures will be provided, if necessary.

- c) **Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?**

Potentially Significant Impact. Implementation of the proposed program could result in significant impacts that may result in substantial adverse effects on human beings. These potential effects will be addressed in the PEIR, and mitigation measures will be recommended, if necessary.
