

**Department of  
Conservation &  
Development**

30 Muir Road  
Martinez, CA 94553-4600

Phone: 1-855-323-2626

**Contra  
Costa  
County**



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Redevelopment Programs

(925) 313-2022

April 18, 2012

**NOTICE OF PUBLIC REVIEW AND INTENT TO ADOPT A PROPOSED  
NEGATIVE DECLARATION**

**County File No. CP 12-10**

Pursuant to the State of California Public Resources Code and the "Guidelines for Implementation of the California Environmental Quality Act of 1970" as amended to date, this is to advise you that the Department of Conservation and Development of Contra Costa County has prepared an Initial Study/Negative Declaration for the following project:

**PROJECT NAME:** West County Detention Center Solar Array Installation and Restoration Project

**LEAD AGENCY:** Contra Costa County Department of Conservation and Development

**APPLICANT:** Contra Costa County Public Works Department

**LOCATION:** 5555 Giant Highway, Richmond. APN: 405-042-021.

**DESCRIPTION:** Contra Costa County intends to install photovoltaic equipment at the West County Detention Center (WCDC). The photovoltaic equipment will be installed within the existing detention center parking lot which is approximately 2.8 acres. The equipment will consist of solar panels, brackets, wiring, electric meters and other associated equipment required to provide solar-electric energy to the facility. The equipment will be installed in six solar panel arrays of approximately 3,263 modules. The arrays are typical carport style, 9 feet high and will not require the removal of any parking stalls and will provide a shaded parking area. Limited removal of native and non-native landscaping trees and shrubs may be necessary to ensure the arrays are not shaded by vegetation. Landscaping will be installed around the perimeter of the parking lot farther from the proposed arrays to provide screening of the detention center without shading the arrays.

Additionally, adjacent to the WCDC parking lot there is a vacant site where an eucalyptus grove that was retained as a buffer for the WCDC facility was removed in error during the summer of 2011. This site will be enhanced by installing appropriate vegetation to increase the habitat value, reduce fire risk, and provide an aesthetically pleasing entrance to the Point Pinole Regional Shoreline. The restoration area is approximately 5 acres in size. The restoration area will provide a landscape buffer between the neighboring Point Pinole

Regional Park (operated by the East Bay Regional Park District) and the WCDC.

The restoration will consist of a design to plant the area with native vegetation and establish a buffer area between the park entrance and the WCDC. The site will be cleared and grubbed of woody debris. The restoration palette will consist of a mixture of shrubs and trees appropriate to the climate and site conditions with an emphasis on native species. An irrigation system will likely be installed and some minor drainage improvements such as minor site grading may be implemented. Bollards and/or fencing may be required to provide a barrier to the site from vehicles. Minor improvements to pedestrian pathways such as replenishment of decomposed granite or gravel may also be included as part of the project. Access to the shoreline will be maintained at all times. A conceptual landscape design plan has been drafted.

**ENVIRONMENTAL EFFECTS:** No significant environmental effects were found as a result of the project. As such, an Initial Study/Negative Declaration (IS/ND) has been prepared pursuant to Public Resources Code Section 21080(c) and Article 6 of the California Environmental Quality Act (CEQA) Guidelines.

Pursuant to the requirements of CEQA Guidelines Section 15070, the IS/ND describes the proposed project; identifies, analyzes, and evaluates the potential significant environmental impacts, which may result from the proposed project. No significant environmental effects were found to result from adoption of the project.

A copy of the IS/ND may be reviewed at the Contra Costa County Public Works Department, 255 Glacier Drive, Martinez, during normal business hours. All documents referenced in the IS/MND are available on request.

You may also view the IS/ND at the County's webpage: <http://www.co.contra-costa.ca.us>. (go to the Department of Conservation and Development and click on what's new).

**Public Comment Period:** The period for accepting comments on the adequacy of the environmental document extends to **Friday, May 18, 2012**. Any comments should be in writing and submitted to:

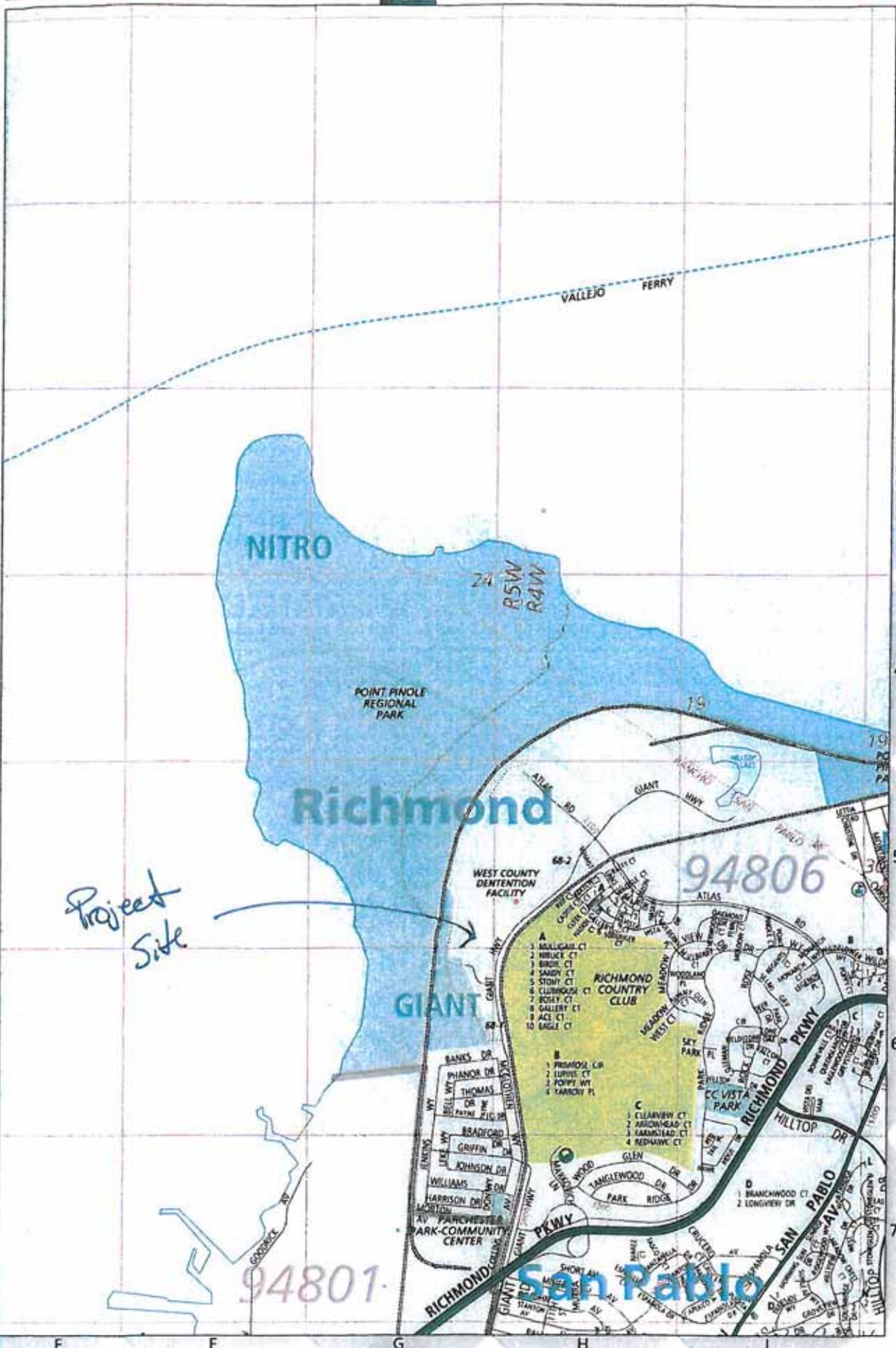
Hillary Heard, Planner II  
Contra Costa County Public Works Department  
255 Glacier Drive  
Martinez, CA 94553  
[hhear@pw.cccounty.us](mailto:hhear@pw.cccounty.us)  
(925) 313-2022

Any questions regarding the project itself can also be directed to staff listed above. The environmental document is expected to go before the County Board of Supervisors on June 5, 2012. To confirm the Board date, please contact Hillary Heard at (925) 313-2022.

cc: County Clerk's Office (2 copies)

FIGURE 2

0 0.25 0.5 1:22,800  
miles 1 in. = 1900 ft.



*Project Site*

CONTRA COSTA

SEE 569 MAP

SEE 588 MAP

© RAND McNALLY



FIGURE 3



<b>Main Street Power</b> 1245 Pearl Street Suite 201 Boulder, CO 80302 303-444-3020		Module: CHSM 6610 Number of Modules: 3263 Drawn By & Date: DJN- 1/17/12	Tilt Angle: 0 Deg Power Output (DC): 750.49 kW	Host: County of Contra Costa Site: 5555 Giant Highway, Re-design Location: 5555 Giant Highway, Contra Costa, CA
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## Environmental Checklist Form

1. **Project Title:**  
West County Detention Center Solar Array Installation and Restoration Project
2. **Lead Agency Name and Address:**  
Contra Costa County Department of Conservation and Development  
30 Muir Rd., Martinez, CA 94553
3. **Contact Person and Phone Number:**  
Hillary Heard, Planner II (925) 313-2022
4. **Project Location:**  
The project is located at 5555 Giant Highway, in west Contra Costa County in the City of Richmond (figures 1-6). Assessor Parcel Map No. 405-042-021.
5. **Project Sponsor's Name and Address:**  
Contra Costa County Public Works Department  
255 Glacier Dr., Martinez CA 94553
6. **General Plan Designation:**  
PS, PR, LI, SM (Public/Semi-Public, Parks and Recreation, Light Industrial and Single Family Residential-Medium)
7. **Zoning:**  
PC (Public and Civic Uses)
8. **Project Description:**  
Contra Costa County intends to install photovoltaic equipment at the West County Detention Center (WCDC). The photovoltaic equipment will be installed within the existing detention center parking lot which is approximately 2.8 acres. The equipment will consist of solar panels, brackets, wiring, electric meters and other associated equipment required to provide solar-electric energy to the facility. The equipment will be installed in six solar panel arrays of approximately 3,263 modules. The arrays are typical carport style, 9 feet high and will not require the removal of any parking stalls and will provide a shaded parking area. Limited removal of native and non-native landscaping trees and shrubs may be necessary to ensure the arrays are not shaded by vegetation. Landscaping will be installed around the perimeter of the parking lot farther from the proposed arrays to provide screening of the detention center without shading the arrays.

Additionally, adjacent to the WCDC parking lot there is a vacant site where an eucalyptus grove that was retained as a buffer for the WCDC facility was removed in error during the summer of 2011. This site will be enhanced by installing appropriate vegetation to increase the habitat value, reduce fire risk, and provide an aesthetically pleasing entrance to the Point Pinole Regional Shoreline. The restoration area is approximately 5 acres in size. The restoration area will provide a landscape buffer between the neighboring Point Pinole Regional Park (operated by the East Bay Regional Park District) and the WCDC.

The restoration will consist of a design to plant the area with native vegetation and establish a buffer area between the park entrance and the WCDC. The site will be cleared and grubbed of woody debris. The restoration palette will consist of a mixture of shrubs and trees appropriate to the climate and site

conditions with an emphasis on native species. An irrigation system will likely be installed and some minor drainage improvements such as minor site grading may be implemented. Bollards and/or fencing may be required to provide a barrier to the site from vehicles. Minor improvements to pedestrian pathways such as replenishment of decomposed granite or gravel may also be included as part of the project. Access to the shoreline will be maintained at all times. A conceptual landscape design plan has been drafted.

9. **Surrounding Land Uses and Setting:**

Land surrounding the project consists of East Bay Regional Park District (EBRPD) Pt. Pinole Regional Park to the west and south which is used for recreation. To the east Richmond Country Club (Golf Course) which is also recreational use and to the North is Light Industrial Business Park. The community of Parchester Village, a single family residential community is located farther south of the project.

10. **Other public agencies whose approval is required (e.g. permits, financing, approval, or participation agreement):** Contra Costa County Board of Supervisor's for project approval of the Solar Array Installation and the Contra Costa County, Department of Conservation and Development for Building Permit.

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

**DETERMINATION: (To be completed by the Lead Agency)**

On the basis of this initial evaluation:

- 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 mitigations measures that are imposed upon the proposed project, nothing further is required.

\_\_\_\_\_  
 Signature  
 Principal Planner  
 Contra Costa County Department of Conservation and Development

\_\_\_\_\_  
 Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

**I. AESTHETICS**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- a) Would the project have a substantial adverse effect on a scenic vista?

The Environmental Impact Report (EIR) for the West County Justice Center (since renamed the West County Detention Center (WCDC)) drafted in April of 1990 analyzed the effects the construction of the WCDC would have on the scenic vistas in the area. The study found that with both landscaping on the perimeter of the facility and a landscape buffer area to the south of the site between Pt. Pinole Regional Park and the facility impacts to scenic views in the area as a result of the construction of the facility would be greatly minimized. The existing eucalyptus grove that was retained as a buffer for the facility was removed in error during the summer of 2011. As a result, the Tree Restoration element of the project will aid in restoring the landscape buffer. In addition placing landscaping along the perimeter for the parking lot to shield the view of the photovoltaic cells will be consistent with the measures in the EIR. Therefore, the project will have a **less than significant impact**.

- b) Would the project substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

The project will not damage scenic resources within a state scenic highway because it is not located on or adjacent to a state scenic highway. Therefore, the project will have **no impact**.

- c) Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

The installation of the Solar Arrays will include a limited removal of native and non-native landscaping trees and shrubs to ensure the arrays are not shaded by vegetation. Landscaping will be installed around the perimeter of the parking lot farther from the proposed arrays to provide screening of the detention center without shading the arrays.

In addition, the restoration will consist of a design to plant the area with native vegetation and establish a buffer area between the park entrance and the detention center. The site will be cleared and grubbed of woody debris. The restoration palette will consist of a mixture of shrubs and trees appropriate to the climate and site conditions with an emphasis on native species.

The additional landscaping along Giant Highway and the restoration of the eucalyptus grove area will ensure the visual character of the existing site is not degraded.

Construction equipment will be visible temporarily during construction of the safety improvements; however, this is a minor and short-term disturbance which will end upon completion of the project. Therefore, the project will have a **less than significant impact**.

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

No reflective light sources will be installed by the project. Therefore, the project will not create a new source of substantial light or glare. The photovoltaic cells are designed to absorb rather than reflect light, so there will be no additional light or glare produced by the solar arrays. During construction light sources are not likely to be needed since construction will predominantly take place during daylight hours. Therefore, the project will have **no impact**.

**II. AGRICULTURE AND FOREST RESOURCES**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<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 <u>or</u> conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Would the project 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?

The project will not convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance. Based on review of the Contra Costa County Important Farmland Map of 2006, no farmland with these designations occurs within or immediately adjacent to the project. Therefore, the project will have **no impact**.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?

The project will not conflict with existing zoning for agricultural use or a Williamson Act Contract. Based on a review of the 2007 Agricultural Preserve Maps the project will not affect an existing Williamson Act contract. Therefore, the project will have **no impact**.

c) Would the project 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)?

The project will not 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), because no forest-land or timberland is present within or adjacent to the project area. Therefore, the project will have **no impact**.

- d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

The project will not result in the loss of forest land or conversion of forest land to non-forest use because forest land is not present within or adjacent to the project. Therefore, the project will have **no impact**.

- e) Would the project 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?

The project will not increase capacity of the roadway, nor are other land use changes proposed that would encourage conversion of farmland to non-agricultural use. Therefore, the project will have **no impact**.

### III. AIR QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Regulatory Setting

Air pollution can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage; or short-term acute effects such as eye watering, respiratory irritation, and headaches (Bay Area Air Quality Management District [BAAQMD] 2010). The 1970 federal Clean Air Act established national ambient air quality standards for six criteria pollutants: ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, particulate matter, and lead; to protect public health and welfare. Amendments to the federal Clean Air Act require the U.S. Environmental Protection Agency (USEPA) to classify air basins or portions of thereof, as either “attainment” or “nonattainment” for each criteria pollutant, based on whether or not the national standards have been achieved. The California Clean Air Act also requires areas to be designated as “attainment” or “nonattainment” based on whether or not state standards have been achieved. Under the federal and state Clean Air Acts, air basin jurisdictions with “nonattainment” areas are required to prepare air quality plans that include strategies for achieving attainment (Contra Costa Transportation Authority [CCTA] 2009a). The Bay Area Air Quality Management District (BAAQMD) is the primary agency responsible for assuring that the National and California Air Ambient Standards are attained and maintained in the San Francisco Bay Area Air Basin (SFBAAB). The SFBAAB is currently designated as a nonattainment area for state and national ozone standards, and national particulate matter (PM 10, PM 2.5) standards. The Bay Area 2010 Clean Air Plan (BAAQMD 2010a) includes strategies that are implemented through various BAAQMD programs and rules and regulations; a State Implementation Plan addressing the PM 2.5 non-attainment status will be issued by December 2012 (BAAQMD 2011).

In order to address global climate change associated with air quality impacts, CEQA statutes were amended to require evaluation of greenhouse gas (GHG) emissions (global pollutants) (discussed further in section VII) which includes criteria air pollutants (regional pollutants) and toxic air contaminants (local pollutants). As a result, the BAAQMD adopted CEQA thresholds of significance for criteria air pollutants and GHGs, and issued updated CEQA guidelines to assist lead agencies in evaluating air quality impacts to determine if a project’s individual emissions would be cumulatively considerable. Various modeling tools are used to estimate emissions based on the type of project (i.e.,

land use developments, linear transportation and utility projects) (BAAQMD 2010).

- a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

The solar project will not conflict with or obstruct implementation of the applicable air quality plan. Construction of the project will result in temporary increases of air pollutant concentrations from construction equipment and soil disturbance. Approximately 2.8 acres of surface area will be disturbed during the installation of the Solar Panels, no soil will be off hauled from the site. Project construction will take approximately three months to complete. The types of construction equipment that would be used include cranes, scissor lifts, concrete trucks, pile driver or auger and 54' flatbed trucks to deliver the solar panel arrays.

For the Tree Restoration site approximately 4 acres of surface area will be disturbed during the restoration of the vacant parcel, no soil will be off hauled from the site, only stumps will be removed from the site using 15 cubic yard trucks. Project construction will take approximately one month to complete. The types of construction equipment that would be used include front end loaders, tillers, trencher and back hoe or machine drill digger.

Construction-related activities generate criteria air pollutants including carbon monoxide, sulfur dioxide, particulate matter (PM<sub>2.5</sub>, PM<sub>10</sub>) as well as precursor emissions such as reactive organic gases (ROG) and oxides of nitrogen (NO<sub>x</sub>) and GHGs from exhaust, fugitive dust. The BAAQMD CEQA Air Quality Guidelines (Guidelines) provides preliminary screening criteria to determine if project construction-related emissions would result in a less-than-significant impact as follows (BAAQMD 2011):

- The project is below the applicable screening level size listed for various land use types (Table 3-1 of the Guidelines); and
- All Basic Construction Mitigation Measures outlined in the Guidelines (Table 8-1) to meet the best management practices threshold for fugitive dust would be included in the project design and implemented during construction as listed below:

The project will implement the applicable best management practices in accordance with the BAAQMD (BAAQMDa) basic construction measures:

- 1 All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day.
- 2 All haul trucks transporting soil, sand, or other loose material off-site will be covered.
- 3 All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. Dry power sweeping will not be used.
- 4 All vehicle speeds on unpaved roads will be limited to 15 mph.
- 5 Idling times will be minimized by either shutting equipment off when not in use or reducing the maximum idling time to 5 minutes. Clear signage will be provided for construction workers at all access points.
- 6 All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- 7 Signs will be posted with the telephone number and person to contact regarding dust complaints. Complaints will be corrected within 48 hours. The sign will also include the BAAQMD phone number to ensure compliance.

With these BMPs implemented project impacts will be **less than significant**.

- b) Would the project violate any air quality standard or contribute to an existing or projected air quality violation?

Neither the solar project nor Tree Replacement project will violate any air quality standard or contribute substantially to an existing projected air quality violation as the emissions from construction operations will not exceed the BAAQMD threshold levels for criteria air pollutants and particulate matter of ROG Average Daily Emissions of 54 (lbs./day); NOx Average Daily Emissions of 54 (lbs./day); PM10 Average Daily Emissions of 82 (lbs./day) and PM2.5 Average Daily Emissions of 54 (lbs./day), refer to Section VII for more detailed information on Greenhouse Gas Emissions. Therefore, project impacts will be **less than significant**.

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

According to the BAAQMD, if a project's emissions do not exceed the identified significance thresholds, then the emissions would not be considered cumulatively considerable, and no further analysis is required. In addition the restoration site will actually provide a benefit to air quality by adding trees to a vacant site. Therefore, because the proposed project's emissions would not exceed significance thresholds, they would not be considered to have cumulative impacts (BAAQMD 2010a). Project impacts will be **less than significant**.

- d) Would the project expose sensitive receptors to substantial pollutant concentrations?

Construction of the project will temporary increase the concentration of pollutants which could occur during construction but in the long term will not increase pollutants above existing levels. Sensitive receptors include those segments of the population most susceptible to poor air quality such as children, the elderly, and those with pre-existing serious health problems affected by air quality which are those places such as schools/schoolyards, parks and playgrounds, day care centers, nursing homes, hospitals, and residential communities (California Air Resources Board 2009). The project will not expose sensitive receptors to substantial pollutant concentrations due to the location of the site being in an area lacking dense population. Therefore, project impacts will be **less than significant**.

- e) Would the project create objectionable odors affecting a substantial number of people?

The project may create minor temporary objectionable odors due to construction activities; however the exposure to objectionable odors during construction will be minor and temporary. Due to the location of the site there is not a substantial number of people close to the project area. Therefore the project impacts will be **less than significant**.

#### IV. BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

#### Project Location and Setting

The project area is located at 555 Giant Highway (s 1 and 2). The project is located in a relatively unpopulated setting with East Bay Regional Park District (EBRPD) Pt. Pinole Regional Park to the west and south which is used for recreation (strolling, jogging, dog walking, etc.). To the east is Richmond Country Club (Golf Course) which is also recreational use and to the North is Light Industrial Business Park. The community of Parchester Village, a single family residential community is located farther south of the project. The project is situated within Section 20 on the United States Geological Survey (USGS) 7.5 minute Clayton quadrangle (latitude: 37°59'36", longitude: 122.21'04").

### **Project Related Biological Studies and Research**

The County contracted with Stantec, a landscape architecture firm that has qualified biological staff, to conduct a site reconnaissance in January 2012 to identify with the potential for special status species, sensitive habitats, natural communities, and jurisdictional wetlands and waters of the U.S. in the project area or vicinity that may potentially be impacted by the project. This assessment included a review of:

- The California Department of Fish and Game (CDFG) California Natural Diversity Database (CNDDDB) 2010.
  - The California Native Plant Society: Electronic Inventory of Rare and Endangered Vascular Plants of California, 2010.
  - The California's Wildlife, Volume I-III: Amphibians and Reptiles, Birds, Mammals: California Statewide Wildlife Habitat Relationships System, California Department of Fish and Game, Sacramento, 1990.
  - Corps of Engineers Wetlands Delineation Manual, 1987.
- a) Would the project 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 Game or U.S. Fish and Wildlife Service?

Based on the recent assessment of the habitat in the area and a review of the California Natural Diversity Database (CNDDDB), the potential for special status plant or wildlife species to occur on the property is low due to the absence of suitable habitat(s) to support such species. The Environmental Impact Report (EIR) prepared in April 1990 for construction of the West County Justice Center (since renamed to the West County Detention Center) also did not identify any special status plant or wildlife species at the site. Sensitive Species that have been documented in the vicinity of the project, occur in marshy habitats and would not be expected to move through the WCDC parking lot or occupy the previously dense, upland eucalyptus grove.

- b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

There is a seasonal swale west of the tree restoration site but the project will not impact this feature and the area will be protected via Environmentally Sensitive Area (ESA) Fencing during construction. Therefore, impacts will be **less than significant**.

- c) Would the project 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?

The project will not have an impact to any wetland features. Therefore, impacts will be **less than significant**.

- d) Would the project 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?

The project will not result in permanent disruption to movement of wildlife species. Therefore, the project will **have no impact**.

- e) Would the project conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?

The project is not subject to the County Tree Ordinance, however some native and non-native landscaping trees and shrubs will be removed as part of the solar panel installation. Therefore the project will **be less than significant**.

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

The project does not fall within a Habitat Conservation Plan, Natural Community Conservation Plan or other local, regional or state conservation plan. Therefore the project will **have no impact**.

**V. CULTURAL RESOURCES**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

The project will not create a substantial adverse change to historical resources of significance. The Environmental Impact Report prepared in April 1990 for construction of the West County Justice Center (since renamed to the West County Detention Center) did not identify any Cultural Resources, including historical resources, at the site. In addition, given that the solar array work will occur in an existing parking lot, there is no expectation of impact to historical resources. The restoration component of the project will clear and grub the site of woody debris on the soil surface. Potential minor grading of the dirt path may occur to help improve its functionality and safety. Neither of these activities will impact historical resources.

Regardless of these results, contract specifications will include contingency plans to address any unearthed cultural resources. These will include the stoppage of work in the immediate area of any discovery, and, in the case of human remains, immediately contacting the county coroner, Native American Heritage Commission, and a qualified archeologist to determine how to appropriately deal with the remains. Therefore, project impacts will be **less than significant**.

- b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

The project will not create a substantial adverse change to archaeological resources of significance. However, if archaeological resources are encountered, work will stop in the vicinity of the finding and a qualified archaeologist will evaluate the item. Therefore, project impacts will be **less than significant**.

- c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geological feature?

The project will not destroy any unique paleontological resources or sites because based on the April 1990 EIR for the West County Detention Center, no significant paleontological resources would be expected to occur in the project vicinity. However, if paleontological resources are encountered, work will stop in the vicinity of the finding and a qualified paleontologist will evaluate the findings. Therefore, project impacts will be **less than significant**.

- d) Would the project disturb any human remains, including those interred outside of formal cemeteries?

The project will not impact any formal or informal cemeteries because none were found to be present within or adjacent to the project location. Construction work will stop if human remains are encountered and the appropriate contacts will be made including immediately contacting the County Coroner, Native American Heritage Commission, and a qualified archeologist to determine how to appropriately deal with the remains in accordance with the California Health and Safety Code (Health and Safety Code Section 7050.5[b]). Therefore, project impacts will be **less than significant**.

**VI. GEOLOGY AND SOILS**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
1 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	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving?

1 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

A review of the Contra Costa County General Plan Figure 10-2 (Mapped Earthquake Faults) shows there are no active faults in the project area. The closest active zone is the Hayward Fault, which enters San Pablo Bay approximately 0.1 mile southwest of the project site. However, the site is in an area of high seismic activity that annually experience low to moderate-magnitude earthquakes. The project engineers have taken in to account the seismic activity in the area as part of the design for the project. Therefore, the project will have **a less than significant impact**.

2 Strong seismic ground shaking?

The project area is located in a seismically active region of California and therefore earthquakes occurring along nearby faults in the region have the potential to produce strong ground shaking within and adjacent to the project site. However, no active faults cross the project area; therefore the project is not expected to expose people to substantial adverse effects involving strong seismic ground shaking. Nevertheless, the project design and construction will incorporate measures that are in accordance with

local design practice and guidelines to ensure that the project will withstand seismic activity. Therefore, the project impacts will be **less than significant**.

### 3 Seismic-related ground failure, including liquefaction?

There is a generally low possibility of liquefaction potential in the project area (Contra Costa County 2005d). The project design and construction will incorporate recommended measures in accordance with local design practice and guidelines to ensure that the project will withstand seismic activity and liquefaction. Therefore, project impacts will be **less than significant**.

### 4 Landslides?

A review of the geological (landslides) hazards map (Contra Costa County 2005e) revealed no known geological or soil hazards in the vicinity of the project. In addition, the project engineers have designed the project to take into account the topography surrounding the site. Therefore, there will be **no impact**.

#### b) Would the project result in substantial soil erosion or the loss of topsoil?

The project will not result in substantial soil erosion or the loss of topsoil because the minor grading associated with the tree restoration will result in a negligible change in topography. There will be minimal disturbance to soils as part of the installation of the solar arrays in the West County Detention Center parking lot since the majority of that work will occur in an existing paved area. The project will temporarily increase the exposure of soils to wind erosion in the restoration area. However, grading and excavation will be temporary impacts. Adherence to standard dust control and erosion control practices, including, but not limited to, general watering of exposed areas and/or use of chemical stabilizers will minimize impacts. In order to minimize potential erosion due to general watering during construction activities, contract specifications will require the contractor to implement appropriate watering levels and duration. Therefore, project impacts will be **less than significant**.

#### c) Would the project 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?

Ground failure includes liquefaction and the liquefaction-induced phenomena of lateral spreading, and lurching. Liquefaction and liquefaction-induced phenomena result when sediments below the water table temporarily lose strength during an earthquake and behave as a viscous liquid rather than a solid. Liquefaction and associated phenomena is restricted to certain geologic and hydrologic environments, primarily recently deposited sand and silt in areas with high groundwater levels. According to Figure 10-5 of the Contra Costa County General Plan, the project site has a moderate to low liquefaction potential. Therefore, project impacts will be **less than significant**.

#### d) Would the project 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?

Based on a review of the Swelling Clays Map of the Conterminous United States for expansive soils the project area has a less than 50 percent possibility that the soils in the project site are underlain by soils with abundant clays of slight to moderate swelling potential. Regardless of the type of soils present, neither the installation of the solar arrays in an existing paved parking lot, nor the installation of restoration plantings will result in risks to life of property due to the presence of expansive soils. Therefore, project impacts will be **less than significant**.

- e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?

The project description does not include septic or other waste systems; therefore, there will be **no impact**.

**VII. GREENHOUSE GAS EMISSIONS**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Global Climate Change**

Climate change refers to any significant change in measures of climate, such as average temperature, precipitation, or wind patterns over a period of time (Office of Planning and Research [OPR] 2008b). There is a general scientific consensus that global climate change is occurring, caused in whole or in part by increased emissions of greenhouse gases (GHGs) that keep the earth’s surface warm by trapping heat in the atmosphere. Climate change may result from natural factors, natural processes, and human activities that change the composition of the atmosphere and alter the surface and features of the land (OPR 2008b). The major GHGs that are released from human activity include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) (OPR 2008b). The primary sources of GHGs are vehicles (including planes and trains), energy plants, and industrial and agricultural activities (such as dairies).

Senate Bill 97 (Chapter 185, 2007) required the Governor's Office of Planning and Research (OPR) to develop recommended amendments to the State CEQA Guidelines for addressing greenhouse gas emissions. On April 13, 2009, OPR submitted to the Secretary for Natural Resources its recommended amendments to the State CEQA Guidelines for addressing greenhouse gas emissions, as required by Senate Bill 97. The recommended amendments were developed to provide guidance to public agencies regarding the analysis and mitigation of greenhouse gas emissions and the effects of greenhouse gas emissions in draft CEQA documents. The Natural Resources Agency transmitted the adopted amendments and the entire rulemaking file to the Office of Administrative Law (OAL) on December 31, 2009. On February 16, 2010, the Office of Administrative Law approved the Amendments, and filed them with the Secretary of State for inclusion in the California Code of Regulations. The Amendments became effective on March 18, 2010 (OPR 2010). The BAAQMD is currently updating its Air Quality Plan (the BAAQMD Draft 2010 Bay Area Clean Air Plan (CAP)), which will update the 2005 Ozone Strategy Plan and address air quality issues of concern including greenhouse gases. The BAAQMD has recently updated its CEQA Guidelines (the 2010 BAAQMD CEQA Air Quality Guidelines and the Adopted Air Quality CEQA Thresholds of Significance) to provide guidance for addressing project generated GHG emissions impacts under CEQA. The 2010 BAAQMD CEQA Air Quality Guidelines will be used in conjunction with the provisions of AB32 to determine the project’s impacts with regard to GHG analysis. Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006, recognized that California is the source of substantial amounts of GHG emissions which poses a serious threat to the economic well-being, public health, natural resources, and the environment of California (OPR 2008b). Potential adverse impacts of global warming include severe air quality problems, a reduction in the quality and supply of water from the Sierra snowpack, a rise in sea levels causing the displacement of coastal businesses and

residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems (Health and Safety Code, section 38501) (OPR 2008b).

In order to avoid these consequences, AB 32 established a state goal of reducing GHG emissions to 1990 levels by the year 2020 (a reduction of approximately 25 percent from forecast emission levels) with further reductions to follow.

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

The construction activities of the project will generate GHG through vehicle exhaust. According to the Sacramento Metropolitan Air Quality Management District (SMAQMD) Road Construction Emissions Model results, construction activities associated with the Solar Panel installation would generate approximately 29.1 (lbs/day) of CO<sub>2</sub> and the Tree Restoration site would generate approximately 22.6 (lbs/day) of CO<sub>2</sub>. The BAAQMD does not have an adopted threshold of Significance for construction related GHG emissions, however, to provide a comparison, operational GHG emissions are considered significant at 1,100 metric tons (1,213 tons) CO<sub>2</sub> equivalent/yr. Additionally, the project emissions for NO<sub>x</sub> were below the adopted threshold of significance for criteria pollutants. As discussed in Air Quality section (a) the project will implement standard BMPs which include measures to reduce emissions from construction vehicles such as minimizing idling times and requiring properly maintained and tuned equipment. Because project emissions of CO<sub>2</sub> are relatively small and of a temporary nature, potential project impacts are negligible. In addition, this project will install solar panels on an existing parking lot and will restore an area with native vegetation, and once completed would not result in an increased emissions of greenhouse gases because the project would not increase vehicle trips or vehicle miles traveled on any roadway. Therefore, no new regional vehicle emissions would occur. Project impacts are temporary and will not exceed threshold limits therefore project impacts will be **less than significant**.

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

As discussed above and in the Air Quality section, implementation of the air pollution control measures will minimize air quality impacts which are consistent with the BAAQMD air quality plans on achieving GHG reductions. Therefore, project impacts will be **less than significant**.

**VIII. HAZARDS AND HAZARDOUS MATERIALS**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

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

The project will not create a significant hazard to the public or the environment because once constructed, the project would not result in routine transport, use or disposal of hazardous materials. There is the potential for a release of hazardous substances from construction equipment operations (e.g., accidental petroleum spills) during construction. Project contract specifications will require that the contractor prepare a Water Pollution Control Plan (WPCP) or Storm Water Pollution Prevention Plan (SWPPP) if appropriate to identify safety and best management practices (e.g., placement of drip pans under stationary equipment, routine equipment inspections, and on-site spill cleanup materials) to prevent accidental releases of hazardous substances and potential worker

exposure. In addition, project contract specifications will require the contractor to contact Underground Service Alert (USA) prior to conducting any work that could potentially impact utilities. Therefore, project impacts will be **less than significant**.

- b) Would the project 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?

As discussed above, once constructed the project would not use or store hazardous materials that would create a significant hazard to the public or the environment. There is the potential for a release of hazardous substances from construction equipment operations (e.g., accidental petroleum spills) during construction. The preventative measures discussed above will minimize potential impacts to the environment and worker exposure. Therefore, project impacts will be **less than significant**

- c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school?

The project will not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school because there are no schools located within one-quarter mile. While construction equipment exhaust will generate an increase in air pollutant concentrations, it would be temporary and effects would be negligible due to implementation of air pollution control measures identified in Section III. Air Quality. Therefore, project impacts will be **less than significant**.

- d) Would the project 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?

County staff reviewed the Environmental Protection Agency website that displayed known locations that store or handle hazardous materials (Environmental Protection Agency 2010). The project is not included on a list of hazardous materials sites and would not create a significant hazard to the public or environment. Therefore; project impacts will be **less than significant**.

- 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.

The project is not located within two miles of a public airport. Therefore, the project will have **no impact**.

- 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?

The project is not located in the vicinity of a private airstrip. Therefore, the project will have **no impact**.

- g) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

The project will not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan because access for emergency vehicles will be provided at all times. Therefore, project impacts will be **less than significant**.

- h) Would the project 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?

The project will not expose people or structures to a significant risk of loss, injury or death involving wildland fires. The California Department of Forestry Hazard Severity Zones map (2006) identifies the project areas as in a Local Responsibility Area that is in a Non-Very High Fire Hazard Severity Zone. However, the project does not include construction of structures that would increase the risk from wildland fires as the purpose of the project is to restore an area by planting trees and other plants and to install solar panel arrays on an existing parking lot. Further, safety and best management practices required for construction of the project will identify proper protocol should a fire occur. Therefore, project impacts will be **less than significant**.

**IX. HYDROLOGY AND WATER QUALITY**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 (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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 run-off in a manner which would result in flooding on-or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Would the project violate any water quality standards or waste discharge requirements?

The project will be subject to Clean Water Act requirements and will adhere to construction provisions, precautions, and stipulations as described in the National Pollutant Discharge Elimination System (NPDES) permit that will be complied with under the current Statewide General Permit for Discharges of Storm Water Associated with Construction Activity. In accordance with the provisions of the Construction General Permit, the CCCPWD will require the contractor to prepare and implement a Water Pollution Control Plan (WPCP) to identify BMPs that will reduce discharge of pollutants from construction activities. Therefore, the

project impacts will be **less than significant**.

- b) Would the project 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 (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)?

The project will not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit aquifer volume or a lowering of the local groundwater table because the project will not involve any withdrawals from an aquifer or the groundwater table. Therefore, the project will have **no impact**.

- c) Would the project 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?

The project will not alter the course of any known stream or river. The overall drainage pattern of the site will not be significantly modified nor will it lead to substantial on-site or off-site erosion or siltation, since the existing drainage pattern of the tree restoration site will be retained and the drainage from the parking lot will not be affected. Therefore, project impacts will be **less than significant**.

- d) Would the project 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 run-off in a manner which would result in flooding on-or off-site?

The project will not significantly alter the existing drainage pattern of the site because the existing drainage pattern will be reestablished once the project is complete. Therefore, project impacts will be **less than significant**

- e) Would the project create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

The project will not contribute to run-off water which would exceed the capacity of existing or planned stormwater drainage systems because the existing drainage will be reestablished once the project is complete and re-connected to existing drainage system. No additional vehicle trips will occur as a result of the project and appropriate erosion and siltation BMPs will be implemented therefore no additional sources of polluted runoff are anticipated. Therefore, the project will have a **less than significant impact**.

- f) Would the project otherwise substantially degrade water quality?

There is the potential to degrade water quality during construction; therefore, best management practices will be utilized during construction to avoid adverse impacts to water quality. Contract specifications will require the appropriate storage, servicing and fueling of construction equipment away from drainage ditches to avoid potentially impacting water quality. Therefore, project impacts will be **less than significant**.

- g) Would the project 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?

The project will not create or place any housing within a 100-year flood plain, because the project will not create any residential structures. In addition no construction will occur within the 100 year flood plain. Therefore, the project will have **no impact**.

- h) Would the project place within a 100-year flood hazard area structures that would impede or redirect flood flows?

The project will not place any structure within the 100-year flood plain that could impede or redirect flood flows. Therefore, the project will have **no impact**.

- i) Would the project 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?

The project does not include the construction or alteration of any levees or dams and would not expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of a failure of a levee or dam. The project area is not located within an area that would be inundated from a dam failure (ABAG Dam Failure Inundation Map, 2009), and the project will not result in construction of structures for occupancy. Therefore, the project will have **no impact**.

- j) Would the project the expose people or structures to risk of inundation by seiche, tsunami, or mudflow?

The project is not located in an area subject to seiche, tsunami, or mudflow (ABAG Tsunami Inundation Map for Emergency Planning, 2009). Therefore, the project will have **no impact**.

**X. LAND USE AND PLANNING**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 the 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

a) Would the project physically divide an established community?

The project will not physically divide an established community because the Tree Restoration and Solar Arrays will be built on an existing County owned property. Therefore, the project will have **no impact**.

b) Would the project conflict with any applicable land use plan, policy, or the 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?

The project will not result in an alteration of the present or planned land use of the area. Therefore, the project will have **no impact**.

c) Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

The project is not located in any known habitat conservation plan or natural community conservation plan area. Therefore, the project will have **no impact**.

**XI. MINERAL RESOURCES**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 or 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"/>

- a) Would the project 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?

The project will not impact the availability of mineral resources that would be of value to the state or region. A review of Contra Costa General Plan map F-8 revealed no mapped mineral resources in the project area. Therefore, the project will have **no impact**.

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

There are no mapped mineral resource areas in the project area. As such, the project will not adversely affect the availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or land use plan. Therefore, the project will have **no impact**.

**XII. NOISE**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of, excessive ground borne vibration or ground borne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 within 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"/>

**Background:**

Section 65302(f) of the California Government Code requires that a noise element be prepared as a part of all city and county general plans. The Contra Costa County General Plan (2005) noise element follows the guidelines established by the California Department of Health Services entitled *Guidelines for the Preparation and Content of the Noise Element of the General Plan*, which defines noise metrics, discusses the process of noise element development, and present land use compatibility guidelines based on various noise levels. This state law requires that a jurisdiction’s noise element identify and work toward mitigation of noise problems in the community and include implementation measures and possible solutions that address any existing and perceivable noise problems. Many governmental agencies have promulgated noise standards for various types of projects. The noise element of the County General Plan provides goals, policies, and implementation measures for consideration. Contra Costa County does not have a noise ordinance and therefore, does not specify construction or operational noise level limits. However, the Contra Costa County General Plan (2005) specifies that construction activities shall be concentrated during the hours of the day that are not noise-sensitive for adjacent land uses and should be commissioned to occur during normal work hours. Construction activities are generally limited to the hours between 7 a.m. to 7 p.m.

- a) Would the project cause 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?

The project will not increase ambient noise levels above what already exist once completed since the project includes the restoration and planting of a vacant parcel and the installation of solar

arrays. However, short-term project construction activities will temporarily increase the noise level in the project area. Construction activities for this project are expected to fall within a typical range for construction activities (between 74 to 90 dBA (A-weighted decibels are abbreviated dB(A) or dBA)) which could be heard by nearby residents (the closest residential area is located approximately 0.23 miles south of the project). As stated above, Contra Costa County does not specify construction noise limits but the General Plan specifies that construction activities shall be concentrated during the hours of the day that are not noise-sensitive for adjacent land uses and should be commissioned to occur during normal work hours. Construction activities will be generally limited to the hours between 7:00 a.m. to 7:00 p.m. with noise-generating activities in excess of 65 dBA further restricted to between the hours of 8:00 a.m. and 5:00 p.m. to reduce impacts to nearby residents. If unforeseen circumstances requiring immediate attention necessitate work outside of these hours, the work shall be approved by the Resident Engineer. The Resident Engineer will be on site and available to address any noise concerns during all construction activities. These working hours will be incorporated as part of the construction contract. Contract specifications will also require the use of properly tuned and muffled equipment to minimize noise due to construction activities. The CCCPWD will notify residents adjacent to the project site by letter prior to construction. The letter will include the hours of construction and the name and telephone number of the Resident Engineer. Therefore, project impacts will be **less than significant**.

- b) Would the project cause exposure of persons to or generation of, excessive ground borne vibration or ground borne noise levels?

Once constructed, ground borne vibration levels are expected to return to current levels that already exist. During project construction periodic, temporary generation of ground borne vibration may occur. Some ground borne vibration may result from equipment used during construction but will not be excessive based on the types of construction equipment that will be used. Therefore, project impacts will be **less than significant**.

- c) Would the project cause a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

The project will not result in a significant permanent increase in ambient noise levels because the project includes the restoration and planting of a vacant parcel and the installation of solar arrays. Therefore, the project will have **no impact**.

- d) Would the project cause a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

As discussed in the above section a, construction activities will result in a temporary increase in ambient noise levels above what exists currently. The contractor will be required to comply with project specifications applicable to local noise level rules, regulations, and ordinances as well as require the use of properly tuned and muffled equipment to minimize noise. Therefore, project impacts will be **less than significant**.

- 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?

The project will not impact an airport land use plan because the project is not located within two miles of an airport. Therefore, the project will have **no impact**.

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

The project is not located in the vicinity of a private airstrip. Therefore, the project will have **no impact**.

### XIII. POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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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"/>

- a) Would the project 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)?

The project will not increase population in the region because it will not build any new homes or extend a road or other infrastructure. Therefore, the project will have **no impact**.

- b) Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

The project will not result in the displacement of any homes or residents because no homes will be demolished or removed by the project. Therefore, the project will have **no impact**.

- c) Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

The project will not displace residents because as stated above no residences will be removed or demolished. Therefore, the project would have **no impact**.

**XIV. PUBLIC SERVICES**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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Would the project:

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

1 Fire Protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Police Protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4 Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

1 Fire Protection?

To alleviate any disruption to local fire protection services during construction, the contractor will contact local fire protection response services prior to project construction and provide at least one passable lane at all times during construction for fire protection vehicles. The proposed improvements will not increase demand for fire protection services. No new government facilities are required. Therefore, project impacts will be **less than significant**.

2 Police Protection?

To alleviate any disruption to police protection services during construction, the contractor will contact local police protection response services prior to project construction and provide at least one passable lane at all times during construction for police vehicles. The proposed improvements will not increase demand for police protection services. No new government facilities are required. Therefore, project impacts will be **less than significant**.

3 Schools?

Based on a review of Contra Costa County Mapping Information Center online maps (CCCMIC), no schools are expected to experience disruptions during construction due to the project's location. County staff has estimated the distance between the project and the nearest school (Montalvin Elementary School) as approximately 3.0 miles. The proposed improvements will not increase demand for school services. No new government facilities are required. Therefore, the project will have **no impact**.

#### 4 Parks?

This project will not require the permanent use of the Pt. Pinole Regional Park parcel owned by East Bay Regional Parks District located south of the project area. Temporary impacts to the park are not anticipated at this time as it is anticipated that both projects will stage at the WCDC parking lot and access will be maintained to the trail head at the park facility at all times. The County has corresponded with East Bay Regional Parks concerning the project's construction activity, right of way needs, and temporary disturbance. Therefore, impacts will be **less than significant**.

#### 5 Other public facilities?

Review of CCCMIC maps and field reviews of the project site did not identify any other known public facilities in the immediate project area of the project. Therefore, the project will have **no impact**.

## XV. RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- 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?

The project will not increase the use of Pt. Pinole Regional Park beyond what currently exists. There is a short trail on the tree restoration site that will likely be improved that currently provides access to the park from the bus stop located on the WCDC parking lot. Improvement of this trail is expected to make access more convenient, but is not anticipated to increase use. Therefore, the project will have **a less than significant impact**.

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

The project does not include the construction or expansion of recreational facilities. In addition, the project will not result in population growth. As such, no construction or expansion of recreational facilities is necessary. Therefore, the project will have **no impact**.

**XVI. TRANSPORTATION/TRAFFIC**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- a) Would the project 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?

The project will not conflict with an applicable plan, ordinance or policy affecting the circulation system as once constructed the roadways will return to existing levels with no additional traffic will be generated by the project. Therefore, the following measures will result in the project having a **less than significant impact**.

**Measures:**

- 1 During construction traffic flow will be controlled by traffic control measures per the California Manual of Uniform Traffic Control Devices (MUTCD), flagger, signs, traffic cones.
- 2 One lane of traffic in each direction shall be made passable and open for use by local and emergency traffic at the end of each working day.
- 3 No work that interferes with traffic flow will be performed during commute hours between 7:00 am to 9:00 am and 4:00 pm to 6:00 pm Monday through Friday.

- b) Would the project 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?

The project does not include elements that could increase traffic on roadways, as such no long term impacts will occur. During any potential lane closures for construction, traffic control measures and the above mentioned avoidance measures are expected to minimize significant congestion or delays. Therefore, potential project impacts will be **less than significant impact**.

- c) Would the project 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?

The project will not create a change in air traffic patterns, as there will be no increase in air traffic levels due to this project. The project would pose no substantial safety risk on air traffic, and is not located within the vicinity of an airport. Therefore, the project will have **no impact**.

- d) Would the project substantially increase hazards due to a design feature (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?

The project would not increase design feature hazards. Therefore, the project will have **no impact**.

- e) Would the project result in inadequate emergency access?

The project will not create inadequate emergency access because traffic control measures will ensure that there is no interference with passing emergency vehicles. The traffic control measures will include using California Manual of Uniform Traffic Control Devices (MUTCD) approved measures: flaggers, signs, traffic cones. Therefore, project impacts will be **less than significant**.

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

The project will not conflict with adopted policies, plans or programs supporting alternative transportation because according to the Transit Network Plan (Contra Costa County 2005f) the project is not within a transit corridor and no High Occupancy Vehicle (HOV), Bus or BART lanes routes are currently planned. Therefore, project impacts will be **less than significant**.

**XVII. UTILITIES AND SERVICE SYSTEMS**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

The project will not exceed wastewater requirements because the project would not result in the need for wastewater treatment. Therefore, the project will have **no impact**.

b) Would the project 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?

The project will not require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities because the completed project would not require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities. Therefore, the project will have **no impact**.

c) Would the project require or result in the construction of new storm water drainage facilities, the construction of which could cause significant environmental effects?

The completed project would reestablish the existing stormwater drainage facilities. Therefore, the project will have **less than significant impact**

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

The project will have minimal impacts on water supplies in the project area because the completed project will likely install irrigation for the tree restoration site using existing irrigation lines that currently provide water to the landscaped areas of WCDC. Therefore, the project will have **a less than significant impact**.

- e) Would the project 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?

The completed project will not require wastewater treatment services. Therefore, the project will have **no impact**.

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

Solid waste generated by the project would be limited to construction debris, including concrete, asphalt, and woody debris. Solid waste disposal will occur in accordance with federal, state and local regulations. Disposal of these materials will occur at permitted landfills. The project will not generate the need for a new solid waste facility. Therefore, the project will have **no impact**.

- g) Would the project comply with federal, state and local statutes and regulations related to solid waste?

The project specifications will require that the contractor dispose of solid waste generated from construction in accordance with federal, state and local regulations. Therefore, the project will have **no impact**.

**XVIII. MANDATORY FINDINGS OF SIGNIFICANCE**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish and 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish and 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?

The County has determined that the impacts to the County’s resources and residents will not degrade the quality of the environment, nor will it substantially reduce the habitat or affect populations of any fish or wildlife species or eliminate important examples of major periods of California history or prehistory. Therefore, project impacts will be **less than significant**.

- 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)?

No other known projects in the area could result in cumulative effects either currently or planned in the near future. Therefore, the project will have **No Impact**.

- c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

The County has examined the possible impacts that are associated with the project; using research material, maps, and the reports listed in the source section of this document to analyze the potential impacts to County resources and residents. Therefore the project will be **Less Than Significant**.

Note: Authority cited: Sections 21083, 21083.05, Public Resources Code, Reference: Section 65088.4, Gov. Code: Sections 21080, 21080.05, 21095. Pub. Resources Code: *Eureka Citizens for Responsible Govt. v. City of Eureka (2007)* 147 Cal. App.4<sup>th</sup> 357; *Protect the Historic Amador Waterways v. Amador Water Agency (2004)* 116 Cal. App. 4<sup>th</sup> at 1109; *San Franciscans Upholding the Downtown Plan v. City and County of San Francisco (2002)* 102 Cal. App. 4<sup>th</sup> 656.

## **SOURCES**

In the process of preparing the Checklist and conducting the evaluation, the following references (which are available for review at the Contra Costa County Conservation and Development Department, 651 Pine Street 5th Floor-North Wing, Martinez) were consulted:

- 1 The County General Plan (July 2005)
  - a. EIR on the General Plan (2005-2020)
  - b. 9.6 Scenic Resources Section
  - c. Figure 10-2 Mapped Earthquake Faults
  - d. Figure 10-5 Estimated Potential for Liquefaction
  - e. Figure 10-6 Geological (landslides) Hazards
  - f. Figure 5-3 Transit Network Plan
- 2 Soil Survey of Contra Costa County, Soil Conservation Service, September 1977
- 3 FEMA 100-Year Floodplain Map. October 2009
- 4 California Natural Diversity Data Base, California Department of Fish and Game, March 2009
- 5 Field Reviews and Project Description
- 6 Contra Costa County Public Works Geographic Information System, April 2010
- 7 Association of Bay Area Governments Earthquake Maps and Information. May 2009
- 8 Contra Costa County Ortho-photo and GIS Data Map
- 9 Contra Costa County Important Farmland Map 2004, California Department of Conservation Division of Land Resources Protection, 2008
- 10 Contra Costa Resource Mapping System – Quad Sheet Panels for Antioch South Quadrangle, California
- 11 California Geological Survey, February 2009
- 12 The Swelling Clays Map Of The Conterminous United States, 1989
- 13 Environmental Protection Agency. 2010. Sites known to store/handle hazardous materials/hazardous waste. <http://www.epa.gov/enviro/>
- 14 The California Department of Fish and Game (CDFG) Natural Diversity Database (CNDDDB) 2009.
- 15 The California Native Plant Society: Electronic Inventory of Rare and Endangered Vascular Plants of California, 2009
- 16 The California's Wildlife, Volume I-III: Amphibians and Reptiles, Birds, Mammals: California Statewide Wildlife Habitat Relationships System, California Department of Fish and Game, Sacramento, 1990
- 17 Corps of Engineers Wetlands Delineation Manual, 2009.
- 18 Ecological Classification and Analysis of Potential Impacts to Biological Resources, Stantec, January, 2012
- 19 Association of Bay Area Governments. 2009. Bay Area Dam Failure Inundation Hazards. Website: <http://www.abag.ca.gov/bayarea/eqmaps/damfailure/damfail.html>.
- 20 Mobility of the next Generation: transportation 2030 plan for the San Francisco Bay Area, 2005
- 21 California Department of Forestry Hazard Severity Zones map (2006)
- 22 Road Construction Emissions Model (version 6.3.2), July 2009.
- 23 ; Contra Costa County, Agricultural Preserve Map, 2007
- 24 BAAQMD
  - a CEQA Guidelines, June 2011

25 b Screening Tables for Air Toxics Evaluation During Construction, May 2010  
West County Justice Center, Environmental Impact Report, April 1990

Contra Costa County  
California

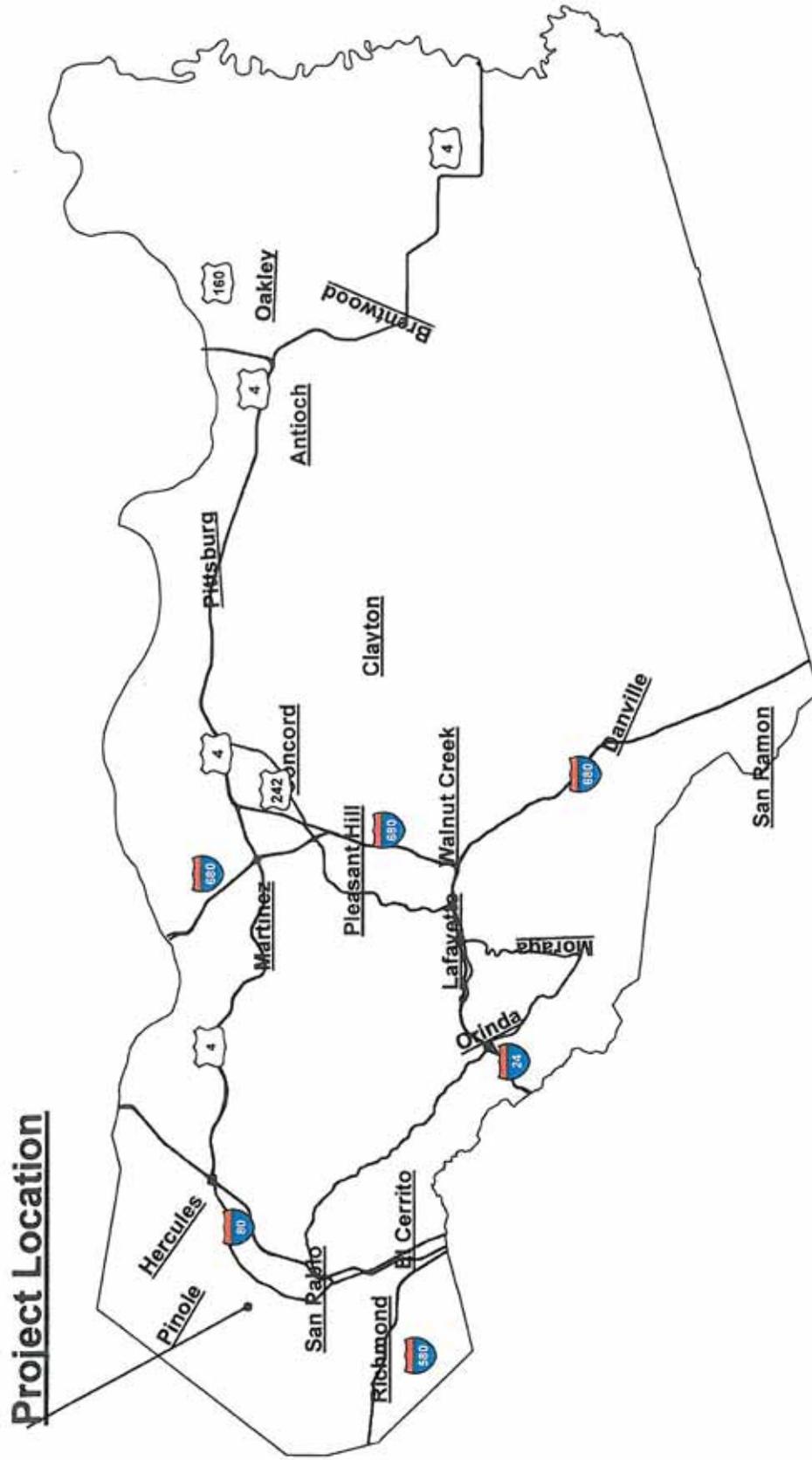


Figure 1 - Project Location Map

FIGURE 2

MAP 568

0 0.25 0.5 1:22,800  
miles 1 in. = 1900 ft.

CONTRA COSTA

SEE 569 MAP

SEE 588 MAP

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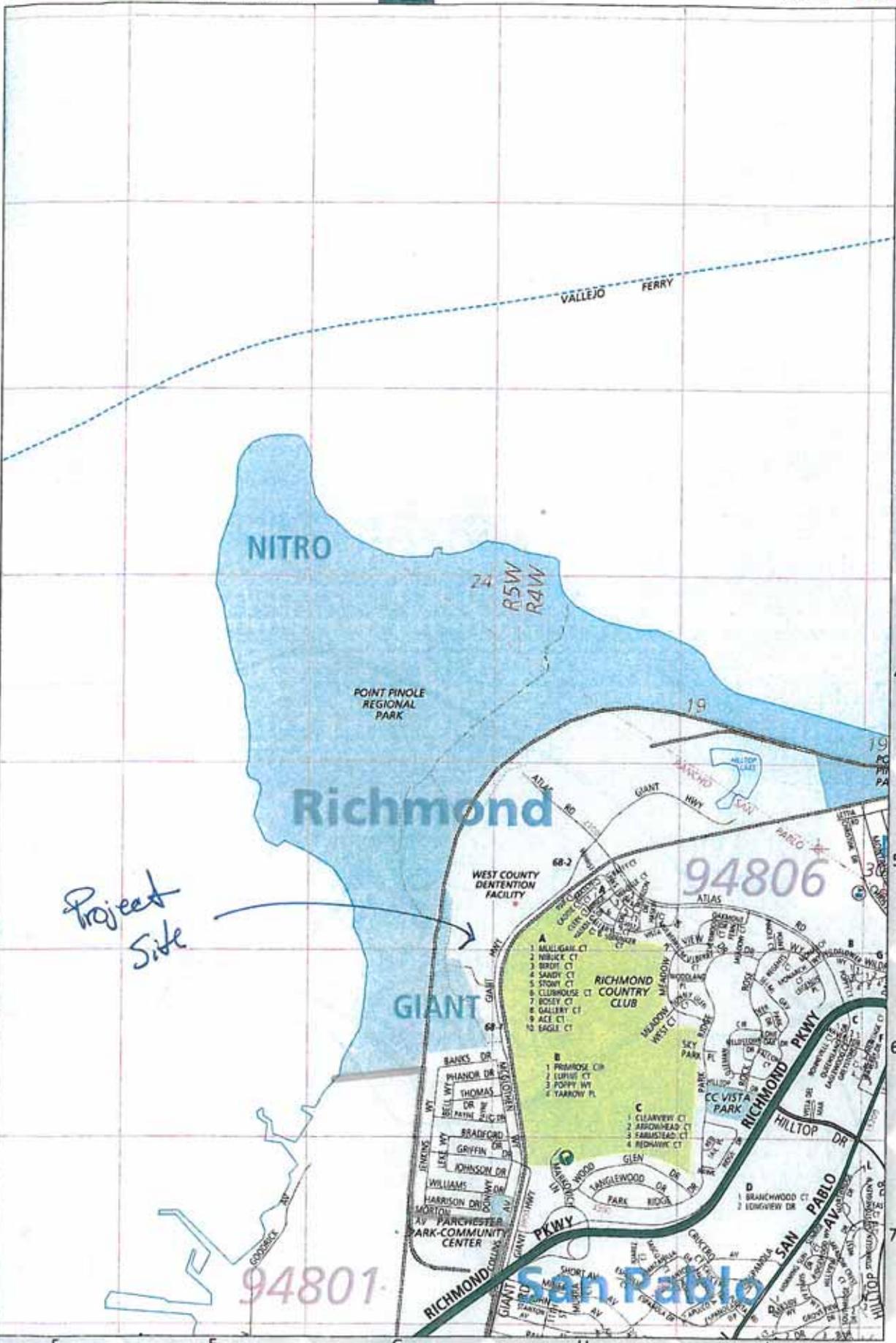
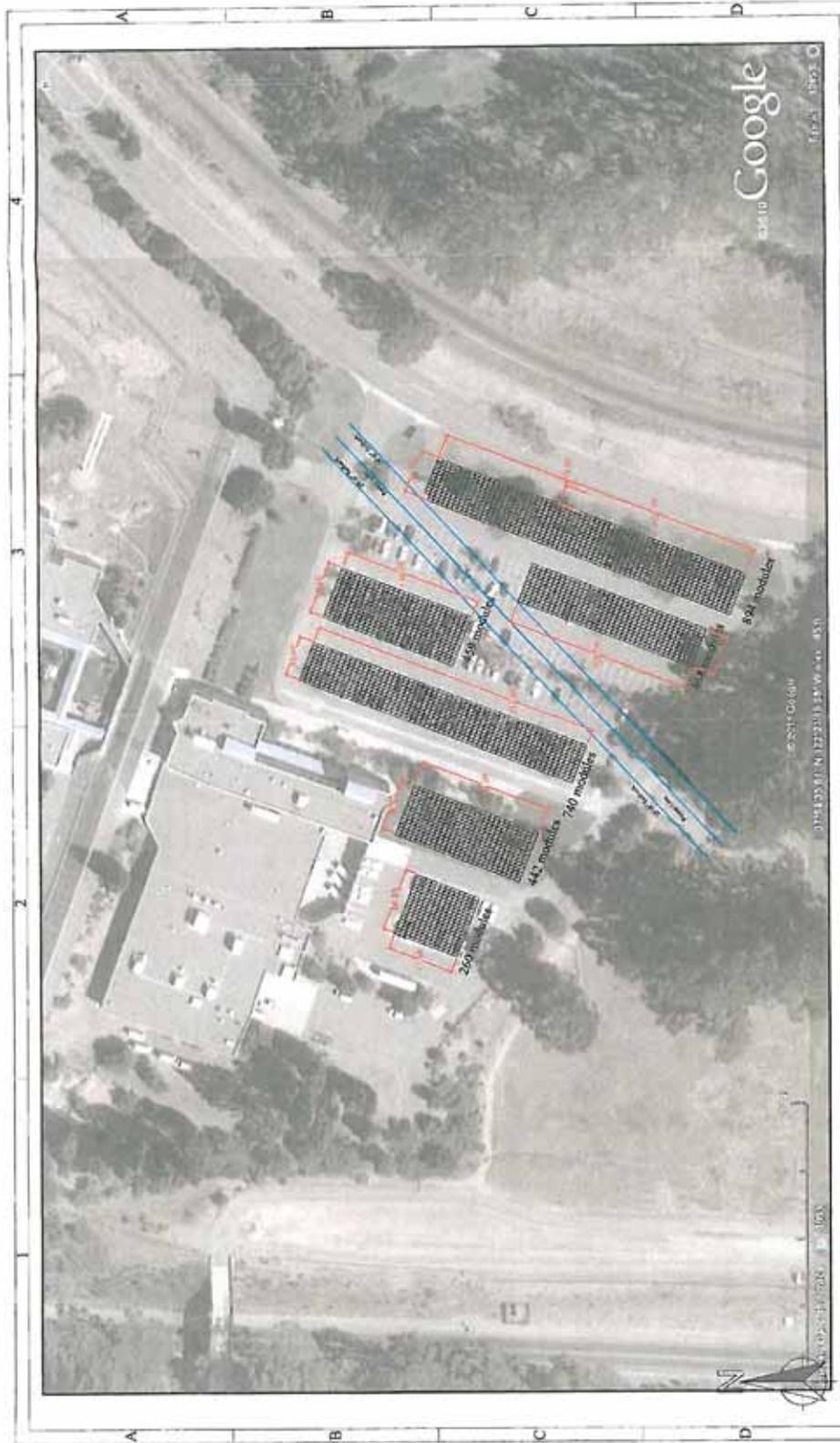
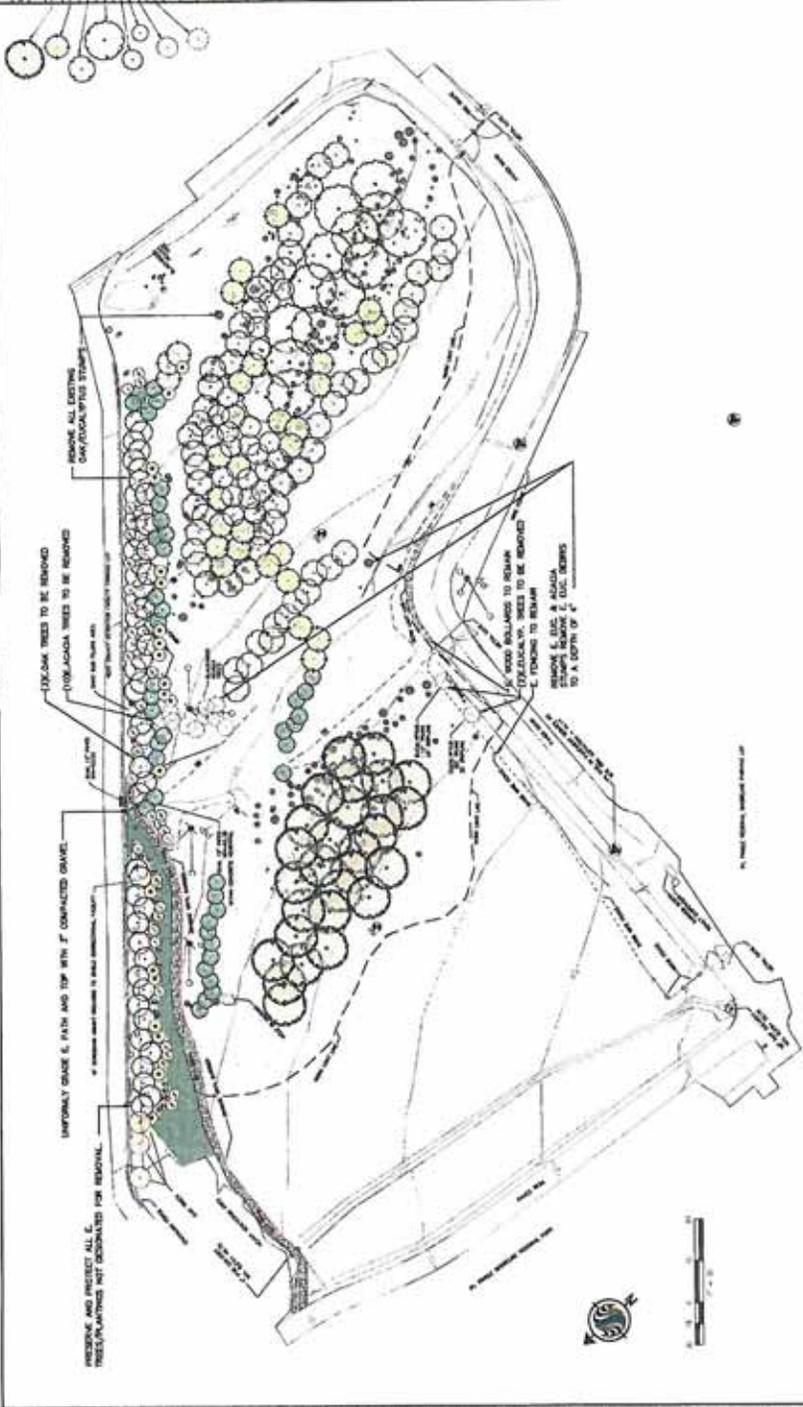


FIGURE 3



<b>Main Street Power</b> 1245 Pearl Street Suite 201 Boulder, CO 80302 303-444-3020		Module: CHSM 6610 Number of Modules: 3263 Drawn By & Date: DIN- 1/17/12		Title Angle: 0 Deg Power Output (DC): 750.49 kW		Host: County of Contra Costa Site: 5555 Giant Highway, Re-design Location: 5555 Giant Highway, Contra Costa, CA	
<div style="text-align: right;"> <b>MAIN STREET POWER</b>  <small>EMPOWERING AMERICA</small> </div>							

FIGURE 4



PLANTING SYMBOL	SYMBOL	PLANT SPECIES	PLANT SIZE	PLANT QUANTITY	PLANT NOTES
1	(Symbol)	ACACIA	12"	10	
2	(Symbol)	ACACIA	18"	10	
3	(Symbol)	ACACIA	24"	10	
4	(Symbol)	ACACIA	36"	10	
5	(Symbol)	ACACIA	48"	10	
6	(Symbol)	ACACIA	60"	10	
7	(Symbol)	ACACIA	72"	10	
8	(Symbol)	ACACIA	84"	10	
9	(Symbol)	ACACIA	96"	10	
10	(Symbol)	ACACIA	108"	10	
11	(Symbol)	ACACIA	120"	10	
12	(Symbol)	ACACIA	132"	10	
13	(Symbol)	ACACIA	144"	10	
14	(Symbol)	ACACIA	156"	10	
15	(Symbol)	ACACIA	168"	10	
16	(Symbol)	ACACIA	180"	10	
17	(Symbol)	ACACIA	192"	10	
18	(Symbol)	ACACIA	204"	10	
19	(Symbol)	ACACIA	216"	10	
20	(Symbol)	ACACIA	228"	10	
21	(Symbol)	ACACIA	240"	10	
22	(Symbol)	ACACIA	252"	10	
23	(Symbol)	ACACIA	264"	10	
24	(Symbol)	ACACIA	276"	10	
25	(Symbol)	ACACIA	288"	10	
26	(Symbol)	ACACIA	300"	10	
27	(Symbol)	ACACIA	312"	10	
28	(Symbol)	ACACIA	324"	10	
29	(Symbol)	ACACIA	336"	10	
30	(Symbol)	ACACIA	348"	10	
31	(Symbol)	ACACIA	360"	10	
32	(Symbol)	ACACIA	372"	10	
33	(Symbol)	ACACIA	384"	10	
34	(Symbol)	ACACIA	396"	10	
35	(Symbol)	ACACIA	408"	10	
36	(Symbol)	ACACIA	420"	10	
37	(Symbol)	ACACIA	432"	10	
38	(Symbol)	ACACIA	444"	10	
39	(Symbol)	ACACIA	456"	10	
40	(Symbol)	ACACIA	468"	10	
41	(Symbol)	ACACIA	480"	10	
42	(Symbol)	ACACIA	492"	10	
43	(Symbol)	ACACIA	504"	10	
44	(Symbol)	ACACIA	516"	10	
45	(Symbol)	ACACIA	528"	10	
46	(Symbol)	ACACIA	540"	10	
47	(Symbol)	ACACIA	552"	10	
48	(Symbol)	ACACIA	564"	10	
49	(Symbol)	ACACIA	576"	10	
50	(Symbol)	ACACIA	588"	10	
51	(Symbol)	ACACIA	600"	10	
52	(Symbol)	ACACIA	612"	10	
53	(Symbol)	ACACIA	624"	10	
54	(Symbol)	ACACIA	636"	10	
55	(Symbol)	ACACIA	648"	10	
56	(Symbol)	ACACIA	660"	10	
57	(Symbol)	ACACIA	672"	10	
58	(Symbol)	ACACIA	684"	10	
59	(Symbol)	ACACIA	696"	10	
60	(Symbol)	ACACIA	708"	10	
61	(Symbol)	ACACIA	720"	10	
62	(Symbol)	ACACIA	732"	10	
63	(Symbol)	ACACIA	744"	10	
64	(Symbol)	ACACIA	756"	10	
65	(Symbol)	ACACIA	768"	10	
66	(Symbol)	ACACIA	780"	10	
67	(Symbol)	ACACIA	792"	10	
68	(Symbol)	ACACIA	804"	10	
69	(Symbol)	ACACIA	816"	10	
70	(Symbol)	ACACIA	828"	10	
71	(Symbol)	ACACIA	840"	10	
72	(Symbol)	ACACIA	852"	10	
73	(Symbol)	ACACIA	864"	10	
74	(Symbol)	ACACIA	876"	10	
75	(Symbol)	ACACIA	888"	10	
76	(Symbol)	ACACIA	900"	10	
77	(Symbol)	ACACIA	912"	10	
78	(Symbol)	ACACIA	924"	10	
79	(Symbol)	ACACIA	936"	10	
80	(Symbol)	ACACIA	948"	10	
81	(Symbol)	ACACIA	960"	10	
82	(Symbol)	ACACIA	972"	10	
83	(Symbol)	ACACIA	984"	10	
84	(Symbol)	ACACIA	996"	10	
85	(Symbol)	ACACIA	1008"	10	
86	(Symbol)	ACACIA	1020"	10	
87	(Symbol)	ACACIA	1032"	10	
88	(Symbol)	ACACIA	1044"	10	
89	(Symbol)	ACACIA	1056"	10	
90	(Symbol)	ACACIA	1068"	10	
91	(Symbol)	ACACIA	1080"	10	
92	(Symbol)	ACACIA	1092"	10	
93	(Symbol)	ACACIA	1104"	10	
94	(Symbol)	ACACIA	1116"	10	
95	(Symbol)	ACACIA	1128"	10	
96	(Symbol)	ACACIA	1140"	10	
97	(Symbol)	ACACIA	1152"	10	
98	(Symbol)	ACACIA	1164"	10	
99	(Symbol)	ACACIA	1176"	10	
100	(Symbol)	ACACIA	1188"	10	
101	(Symbol)	ACACIA	1200"	10	
102	(Symbol)	ACACIA	1212"	10	
103	(Symbol)	ACACIA	1224"	10	
104	(Symbol)	ACACIA	1236"	10	
105	(Symbol)	ACACIA	1248"	10	
106	(Symbol)	ACACIA	1260"	10	
107	(Symbol)	ACACIA	1272"	10	
108	(Symbol)	ACACIA	1284"	10	
109	(Symbol)	ACACIA	1296"	10	
110	(Symbol)	ACACIA	1308"	10	
111	(Symbol)	ACACIA	1320"	10	
112	(Symbol)	ACACIA	1332"	10	
113	(Symbol)	ACACIA	1344"	10	
114	(Symbol)	ACACIA	1356"	10	
115	(Symbol)	ACACIA	1368"	10	
116	(Symbol)	ACACIA	1380"	10	
117	(Symbol)	ACACIA	1392"	10	
118	(Symbol)	ACACIA	1404"	10	
119	(Symbol)	ACACIA	1416"	10	
120	(Symbol)	ACACIA	1428"	10	
121	(Symbol)	ACACIA	1440"	10	
122	(Symbol)	ACACIA	1452"	10	
123	(Symbol)	ACACIA	1464"	10	
124	(Symbol)	ACACIA	1476"	10	
125	(Symbol)	ACACIA	1488"	10	
126	(Symbol)	ACACIA	1500"	10	
127	(Symbol)	ACACIA	1512"	10	
128	(Symbol)	ACACIA	1524"	10	
129	(Symbol)	ACACIA	1536"	10	
130	(Symbol)	ACACIA	1548"	10	
131	(Symbol)	ACACIA	1560"	10	
132	(Symbol)	ACACIA	1572"	10	
133	(Symbol)	ACACIA	1584"	10	
134	(Symbol)	ACACIA	1596"	10	
135	(Symbol)	ACACIA	1608"	10	
136	(Symbol)	ACACIA	1620"	10	
137	(Symbol)	ACACIA	1632"	10	
138	(Symbol)	ACACIA	1644"	10	
139	(Symbol)	ACACIA	1656"	10	
140	(Symbol)	ACACIA	1668"	10	
141	(Symbol)	ACACIA	1680"	10	
142	(Symbol)	ACACIA	1692"	10	
143	(Symbol)	ACACIA	1704"	10	
144	(Symbol)	ACACIA	1716"	10	
145	(Symbol)	ACACIA	1728"	10	
146	(Symbol)	ACACIA	1740"	10	
147	(Symbol)	ACACIA	1752"	10	
148	(Symbol)	ACACIA	1764"	10	
149	(Symbol)	ACACIA	1776"	10	
150	(Symbol)	ACACIA	1788"	10	
151	(Symbol)	ACACIA	1800"	10	
152	(Symbol)	ACACIA	1812"	10	
153	(Symbol)	ACACIA	1824"	10	
154	(Symbol)	ACACIA	1836"	10	
155	(Symbol)	ACACIA	1848"	10	
156	(Symbol)	ACACIA	1860"	10	
157	(Symbol)	ACACIA	1872"	10	
158	(Symbol)	ACACIA	1884"	10	
159	(Symbol)	ACACIA	1896"	10	
160	(Symbol)	ACACIA	1908"	10	
161	(Symbol)	ACACIA	1920"	10	
162	(Symbol)	ACACIA	1932"	10	
163	(Symbol)	ACACIA	1944"	10	
164	(Symbol)	ACACIA	1956"	10	
165	(Symbol)	ACACIA	1968"	10	
166	(Symbol)	ACACIA	1980"	10	
167	(Symbol)	ACACIA	1992"	10	
168	(Symbol)	ACACIA	2004"	10	
169	(Symbol)	ACACIA	2016"	10	
170	(Symbol)	ACACIA	2028"	10	
171	(Symbol)	ACACIA	2040"	10	
172	(Symbol)	ACACIA	2052"	10	
173	(Symbol)	ACACIA	2064"	10	
174	(Symbol)	ACACIA	2076"	10	
175	(Symbol)	ACACIA	2088"	10	
176	(Symbol)	ACACIA	2100"	10	
177	(Symbol)	ACACIA	2112"	10	
178	(Symbol)	ACACIA	2124"	10	
179	(Symbol)	ACACIA	2136"	10	
180	(Symbol)	ACACIA	2148"	10	
181	(Symbol)	ACACIA	2160"	10	
182	(Symbol)	ACACIA	2172"	10	
183	(Symbol)	ACACIA	2184"	10	
184	(Symbol)	ACACIA	2196"	10	
185	(Symbol)	ACACIA	2208"	10	
186	(Symbol)	ACACIA	2220"	10	
187	(Symbol)	ACACIA	2232"	10	
188	(Symbol)	ACACIA	2244"	10	
189	(Symbol)	ACACIA	2256"	10	
190	(Symbol)	ACACIA	2268"	10	
191	(Symbol)	ACACIA	2280"	10	
192	(Symbol)	ACACIA	2292"	10	
193	(Symbol)	ACACIA	2304"	10	
194	(Symbol)	ACACIA	2316"	10	
195	(Symbol)	ACACIA	2328"	10	
196	(Symbol)	ACACIA	2340"	10	
197	(Symbol)	ACACIA	2352"	10	
198	(Symbol)	ACACIA	2364"	10	
199	(Symbol)	ACACIA	2376"	10	
200	(Symbol)	ACACIA	2388"	10	
201	(Symbol)	ACACIA	2400"	10	
202	(Symbol)	ACACIA	2412"	10	
203	(Symbol)	ACACIA	2424"	10	
204	(Symbol)	ACACIA	2436"	10	
205	(Symbol)	ACACIA	2448"	10	
206	(Symbol)	ACACIA	2460"	10	
207	(Symbol)	ACACIA	2472"	10	
208	(Symbol)	ACACIA	2484"	10	
209	(Symbol)	ACACIA	2496"	10	
210	(Symbol)	ACACIA	2508"	10	
211	(Symbol)	ACACIA	2520"	10	
212	(Symbol)	ACACIA	2532"	10	
213	(Symbol)	ACACIA	2544"	10	
214	(Symbol)	ACACIA	2556"	10	
215	(Symbol)	ACACIA	2568"	10	
216	(Symbol)	ACACIA	2580"	10	
217	(Symbol)	ACACIA	2592"	10	
218	(Symbol)	ACACIA	2604"	10	
219	(Symbol)	ACACIA	2616"	10	
220	(Symbol)	ACACIA	2628"	10	
221	(Symbol)	ACACIA	2640"	10	
222	(Symbol)	ACACIA	2652"	10	
223	(Symbol)	ACACIA	2664"	10	
224	(Symbol)	ACACIA	2676"	10</	



FIGURE 5

FIGURE 6A



FIGURE 6 B

