

## **EXECUTIVE SUMMARY**

## EXECUTIVE SUMMARY

### *Project Description*

The City of Hughson (City) WWTP treats municipal and industrial wastewater. The WWTP discharges to evaporation and percolation ponds in the vicinity of the Tuolumne River. The current average flow is approximately 0.83 million gallons per day (mgd) while current capacity is 1.0 mgd. The City's WWTP operates under Waste Discharge Requirements (WDR) Order No. 5-00-024, issued in January 2000 by the Central Valley Regional Water Quality Control Board (RWQCB). The WDR includes numerical effluent limits, narrative requirements, groundwater limitations, surface water limitations, solids disposal requirements and other provisions. As the City's WWTP does not discharge to surface water, a National Pollutant Discharge Elimination System (NPDES) permit is not required.

The proposed project consists of the adoption and implementation of the proposed *Wastewater Treatment Plant Master Plan Report* (Master Plan) and the associated expansion, construction and operation. The Master Plan is hereby incorporated by reference. The purpose of the Master Plan is "to develop a master plan for the WWTP based on projected flows and loadings through the year 2025" (Master Plan, pg. 4). This Master Plan will replace the prior Wastewater Treatment Plant Master Plan adopted in 2003. The City received a Notice of Violation (NOV) from the RWQCB, issued July 29, 2003, stating that the WWTP had exceeded its effluent contaminant limits for Total Dissolved Solids, Electrical Conductivity, total coliform organisms, and nitrate as nitrogen. Additionally, the NOV listed violations of acceptable sludge management practices and degradation of groundwater for total coliform, nitrate, salts, and chloroform. The improvements proposed in this project will address the violations currently on file with the RWQCB.

The Master Plan identifies that financing the upgraded treatment and the expansion of the WWTP would require a sewer rate increase, and a developer impact fee increase. The Master Plan estimated that approximately 20% of the total cost would be attributable to a sewer rate increase and 80% to developer impact fee. The City has prepared a Wastewater Treatment Financial Plan (Appendix C). The draft Financial Plan (March 2007) was drafted by Bartle Wells and Associates, an independent financial consultant. It is anticipated that such increases will be used to finance the upgrading and expansion by serving as security for a loan, or debt issuance.

Municipal wastewater flows vary substantially by season and time of day. A wastewater treatment plant must have the capacity to treat typical flows in high flow seasons, as well as to accommodate high peak flows when they occur. The most recent full year of information available on flows reaching the Hughson WWTP, as reported in the Master Plan, is from 2005.

The average day maximum month flow (ADMMF) in 2005 (defined as the mean of the daily flows in the month with the highest total flows) was 0.83 mgd. The single highest (peak) hour is usually recorded in wet weather, which was recorded to be 2.6 mgd (pg. 24). In dry weather, flows are reduced, resulting in an annual average wastewater flow (AAWF) of 0.78 mgd.

To project future WWTP capacity demand, factors such as population and industry need to be analyzed. The Hughson General Plan adopted in 2005, with a planning horizon of 20 years, included infill and substantial new areas for residential growth. According to the 2005 City of Hughson Municipal Service Review (pg. 2-14), the infill and new growth areas will accommodate a population that is estimated to reach 15,074 by 2025, which equates to a 4.8% annual increase. Assuming the continuation of existing industries and the addition of one heavy industrial use by 2025, the most probable flow scenario was projected. At 300 gallons per EDU per day, 0.47 mgd from industry, and 0.42 mgd from commercial, parks/open space, public facilities, urban reserve, and roads/right of way, the projected AAWF for 2025 is 1.9 mgd.

The capacity of a wastewater treatment facility must be sufficient to accommodate peak flows as well as typical average flows. To project future peak hourly flows (PHF), historical peaking factors are typically used. These peaking factors are the ratio of the PHF to the average flow rate. The historical peaking factor for the WWTP is 3.3, which is relatively high for a small community in the Central Valley. This rate was calculated from data that was recorded once every minute and could be influenced by influent surges from the current pump station. With proposed improvements to the influent pump station, the peaking factor is expected to decrease. Therefore, a peaking factor of 3.0 times the AAWF was used to project the future PHF between years 2006 and 2025, as seen in Table ES-1.

**Table ES-1  
Projected Wastewater Treatment Plant Influent Flows**

| <b>Year</b> | <b>Population</b> | <b>AAWF (mgd)</b> | <b>ADMMF (mgd)</b> | <b>PHF (mgd)</b> |
|-------------|-------------------|-------------------|--------------------|------------------|
| 2005        | 5,942             | 0.78              | 0.83               | 2.6              |
| 2006        | 6,399             | 0.90              | 1.0                | 3.0              |
| 2009        | 7,768             | 1.0               | 1.1                | 3.3              |
| 2016        | 10,965            | 1.35              | 1.5                | 4.1              |
| 2025        | 15,074            | 1.9               | 2.1                | 5.6              |

Improvements include several upgrades to increase capacity and efficiency of the plant. New headworks, including coarse and fine screens, a Parshall flume, and biofilters for odor control will be constructed at the existing plant. WWTP improvements on the parcels of land immediately west of the existing plant consist of two new trapezoidal section oxidation ditches, two 70 ft diameter secondary clarifiers, and three percolation ponds. Other improvements include a RAS/WAS pump station, two new gravity belt filter presses for dewatering, operations center building upgrades, and a supervisory control and data acquisition system. The Hatch Road influent pump station and associated force main will be removed and a new 36" gravity sewer will extend approximately one mile from Hatch Road to the new influent pump station location near the headworks, at the WWTP. The gravity sewer will utilize the same route as the existing force main.

Of the 10 existing percolation ponds, four that are currently out of commission will be abandoned as percolation ponds and may potentially be converted into stormwater basins (Ponds 7,8,9 and 10). Should this conversion happen, the City will send a detailed work plan to the RWQCB. Two of the percolation ponds (Ponds 5 and 6) may be rehabilitated by grading (approximately 6.5 acres) and Ponds 1, 2 and 3 will continue to be in service (9.9 acres).

The Hughson WWTP Master Plan improvement projects can be seen in Figure ES-2. The location of the Hatch Road influent pump station and associated gravity sewer can be seen in Figure ES-1 and a detailed graphic of the percolation pond configuration can be seen in Figure ES-3.

### ***Project Objective***

The objective of the project is to establish a plan for managing existing and anticipated sewer treatment needs in the City for a twenty-year period and to implement capital improvement projects necessary to expand the capacity of and improve the functioning of the WWTP while preserving the ability for substantial future expansion. Based on population projections, capacity will be expanded from 1.0 mgd to 1.9 mgd over the study period of this EIR.

### ***Summary of Impacts and Mitigation Measures***

Section 15123(b)(1) of the CEQA Guidelines for the Implementation of the California Environmental Quality Act provide that the summary shall identify each significant effect with the proposed mitigation measures and alternatives that would reduce or avoid that effect. This information is summarized in Table ES.2, Summary of Potential Impacts, Mitigation Measures and Mitigation Monitoring Program, at the end of this Executive Summary, and in Table ES.4, Summary of Impacts Which Remain Significant after Mitigation. The summary of potential cumulative impacts, mitigation measures and monitoring program can be found in Table ES.3.

### ***Potential Areas of Controversy and Issues to be Resolved***

Based on responses to the Notice of Preparation, public scoping meeting and other responses, the following issues are considered to be the most likely to produce controversy in reviewing and considering the proposed project.

- Air Quality
- Growth Inducement
- Land Use
- Water Quality
- Issues to be Resolved

### ***Alternatives to the Proposed Project***

Section 15126.6 of the State CEQA Guidelines requires the EIR to describe a reasonable range of alternatives to the project which would reduce or avoid significant impacts, and which could feasibly accomplish the basic objectives of the project, and to evaluate the comparative merits of the alternatives. Alternatives that would reduce or avoid significant impacts represent

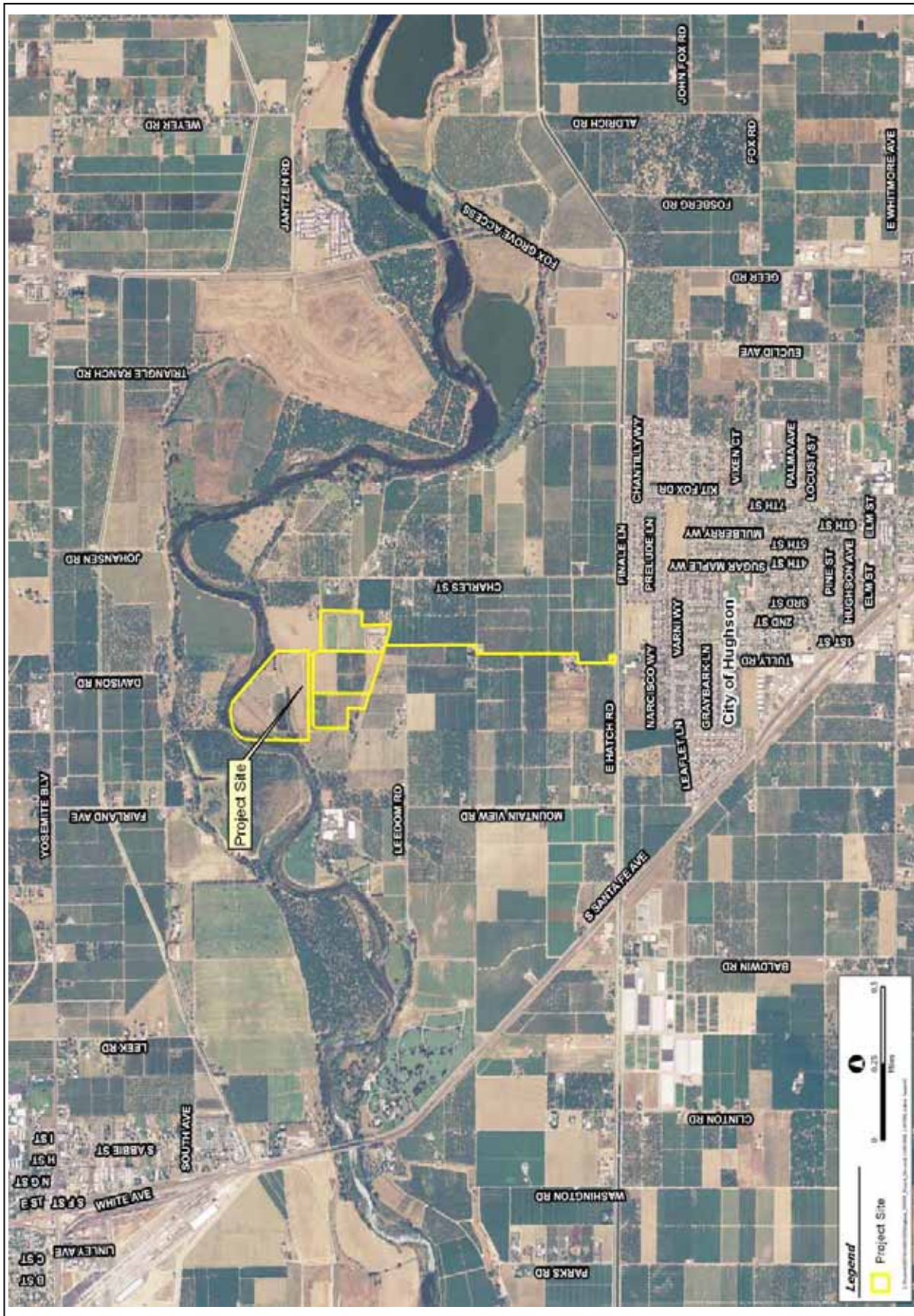


FIGURE  
ES-1

PROJECT AREA



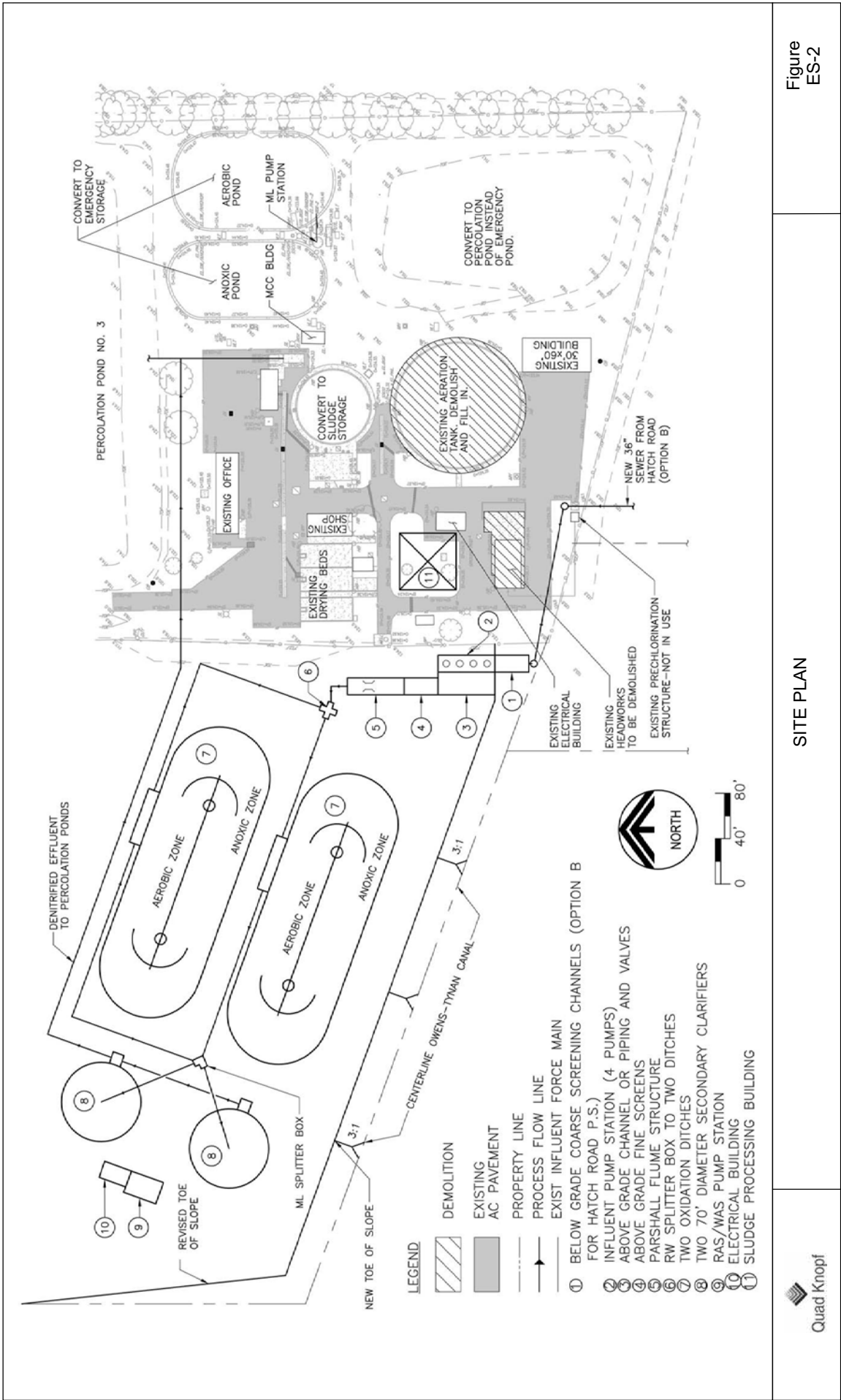


Figure ES-2

June 2007  
ES - 5

SITE PLAN



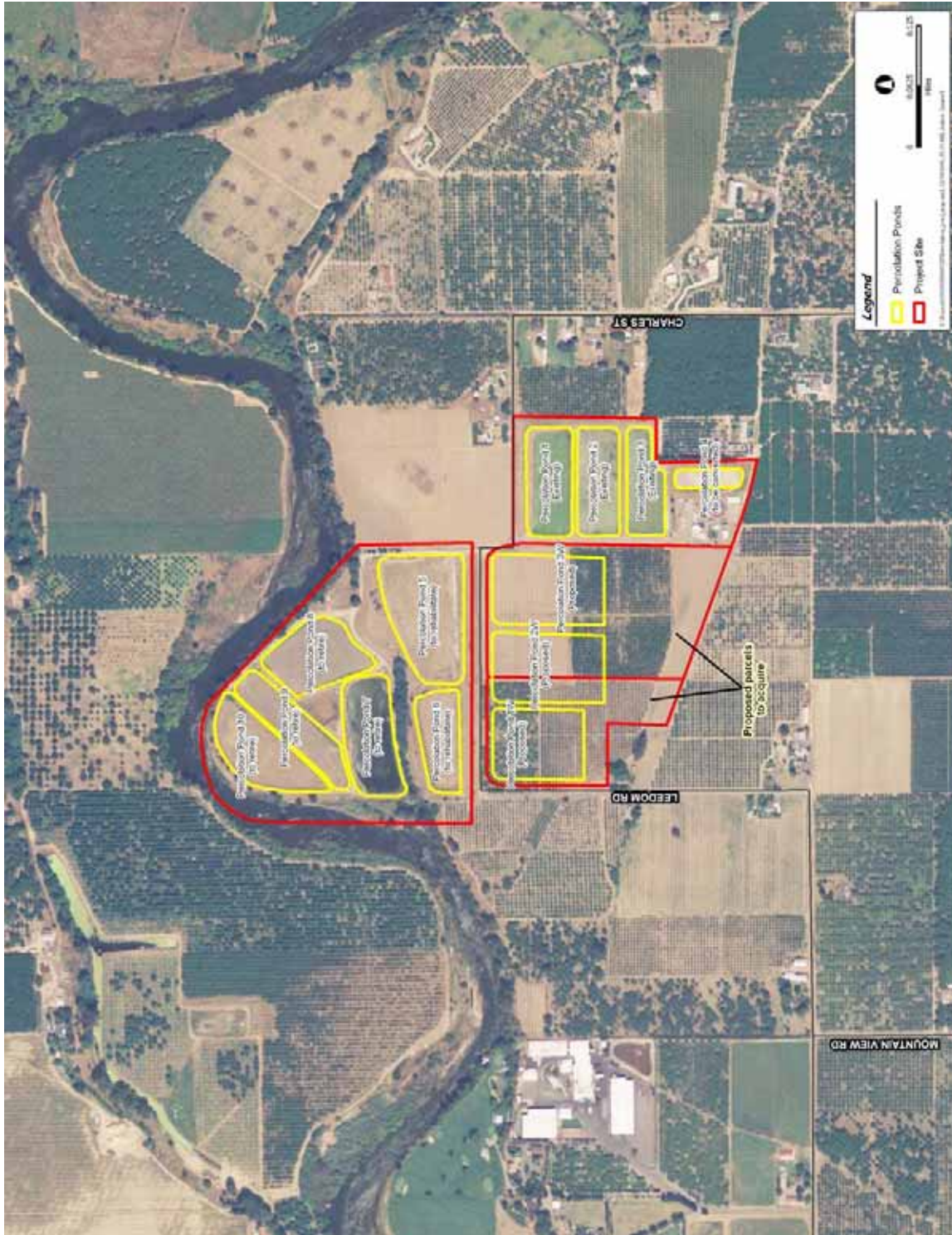


FIGURE  
ES-3

PERCOLATION POND CONFIGURATION



environmentally superior alternatives to the proposed project. However, if the environmentally superior alternative is the no action, the EIR must also identify an environmentally superior alternative among the other alternatives.

## ***Project Alternatives***

### **NO PROJECT**

Under the No Project Alternative, the Wastewater Treatment Plant Master Plan would not be adopted and the capacity of the WWTP would not be expanded. The WWTP is currently in non-compliance with the Regional Water Quality Control Board regulations and would remain in non-compliance. The Hughson General Plan would remain in effect, permitting growth to continue until the capacity of the WWTP is met. At the population growth rate of 4.8% per year as shown in the City of Hughson Municipal Service Review, the City would be reach its treatment capacity and would likely be required to impose a development moratorium in 2008 or 2009. When wastewater flows exceed the design capacity of the WWTP, the Regional Water Quality Control Board would be expected to impose a "cease and desist" order which would require a building moratorium in the City of Hughson to prevent effluent spills and other violations of the City's Waste Discharge Requirements. Once issued, the City may face fines or other sanctions until or unless an ordinance was adopted to strictly limit future connections to the wastewater system. Such a moratorium would typically restrict infill and commercial development as well as continued residential growth and would be required to be maintained until a treatment plant expansion is planned, financed and constructed.

### **ALTERNATIVE SECONDARY PROCESS COMPONENTS**

This alternative would replace the two proposed trapezoidal-section oxidation ditches, with three vertical-wall oxidation ditches, to be constructed in two phases. Two oxidation ditches would be constructed immediately and the third would be constructed to the west of the current treatment plant site as needed to serve growing demand. Both the proposed project and this alternative will require the purchase of land to the west of the current treatment plant, however, in this alternative, the purchase, can be deferred until the third oxidation ditch is needed, in approximately 2016. This alternative would generally achieve the project's basic objective since it would result in additional wastewater treatment capacity to accommodate increased population. However, as described in the Master Plan, this alternative may increase construction costs and may be associated with additional operation costs and related concerns.

### **CONSTRUCT NEW HATCH ROAD PUMP STATION**

The existing Hatch Road Pump Station must be removed or relocated to accommodate anticipated road improvements. The project description calls for the pump station to be removed entirely and replaced with a new gravity sewer line from Hatch Road to the WWTP site. This alternative proposes to remove the existing pump station and construct a new pump station at approximately the same location set back from the proposed roadway. The project description calls for the installation of a new 36 inch gravity line from Hatch Road to the WWTP site. This alternative would require the installation of a new 20 inch force main along the same alignment.

**Table ES.2**  
**Summary of Potential Impacts, Mitigation Measures and Mitigation Monitoring Program**

| <b>Impact No</b> | <b>Impact</b>  | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b>   | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|--|---------------------------|--------------------------|---|------------------------------|--------------------------|
| 3.2.1            | Scenic Vista, Scenic Resources, Visual Character, and Light and Glare  | 3-3                       | None                     | None  | None                         | None                     |
| 3.3.1            | Prime Farmland   | 3-7                       | None                     | None  | None                         | None                     |
| 3.3.2            | Williamson Act Contract  | 3-7                       | None                     | None  | None                         | None                     |
| 3.4.1            | Operational CO   | 3-22                      | None                     | None  | None                         | None                     |
| 3.4.2            | Operational Emissions (ROG, NOx & PM <sub>10</sub> )   | 3-22 to 3-23              | None                     | None  | None                         | None                     |
| 3.4.3            | Adverse Odors  | 3-23 To 3-26              | None                     | None  | None                         | None                     |
| 3.4.4            | Hazardous Air Pollutant Exposure   | 3-26                      | None                     | None  | None                         | None                     |
| 3.4.5            | Construction Emissions NOx   | 3-27 to 3-28              | None                     | None  | None                         | None                     |
| 3.5.1            | Substantial Adverse Effect on Candidate, Special-Status or Sensitive Species or Habitat of Sensitive Species | 3-37 to 3-39              | 3.5.1.1                  | Protection of Valley Elderberry Longhorn Beetle<br>The following action shall be taken where construction may encroach to within 100 feet of the elderberry bushes located along the easterly fence line of the subject area: <ul style="list-style-type: none"> <li>▪ Each elderberry bush that has stems 1 inch or greater in diameter and that is within 100 feet of any proposed construction activity will be inspected for Valley elderberry longhorn beetles prior to initiation of construction.</li> </ul> | Less Than Significant        | City of Hughson          |

| <b>Impact No</b> | <b>Impact</b> | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b>  | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|---------------|---------------------------|--------------------------|--|------------------------------|--------------------------|
|                  |               |                           |                          | <ul style="list-style-type: none"> <li>▪ For those bushes in which the beetle does not occur, construction within the 100 foot buffer area will be allowed, provided that:               <ul style="list-style-type: none"> <li>- A letter of concurrence is obtained from the United States Fish and Wildlife Service authorizing construction within the buffer area.</li> <li>- A biologist is present on-site during construction within the 100-foot buffer area to monitor construction activities and ensure that there are no impacts to the elderberry bushes.</li> <li>- Restoration of habitat within the 100-foot buffer area must occur once construction is complete, except in those instances where permanent facilities are constructed. The applicant must provide a written description to the USFWS of how the buffer areas are to be restored, protected, and maintained after construction is completed. Mowing of grasses/ground cover may occur from July through April to reduce fire hazard. No mowing shall occur within five (5) feet of elderberry plant stems. Mowing must be done in a manner that avoids damaging plants (e.g., stripping away bark through careless use of mowing/trimming equipment).</li> <li>- All areas to be avoided during construction activities shall be fenced and flagged. In areas where encroachment on the 100-foot buffer has been approved by the Service, provide a minimum setback of at least 20 feet from the dripline of each elderberry plant is required.</li> <li>- Erect signs every 50 feet along the edge of the avoidance area with the following information: "This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment." The signs should be clearly readable from a distance of 20 feet, and must be maintained for the duration of construction.</li> <li>- A qualified biologist shall conduct a training program for all construction contractors that will be working on the project to</li> </ul> </li> </ul> |                              |                          |

| Impact No    | Impact | Page Number in EIR | Mitigation Number | Mitigation Measure   | Level of Significance | Monitoring Agency |
|--------------|--------|--------------------|-------------------|--|-----------------------|-------------------|
|              |        |                    |                   | inform workers of the need to avoid damaging elderberry plants and the possible penalties for not complying with these requirements. The training program must include information on the status of the beetle and the need to protect its elderberry host plant.  |                       |                   |
|              |        |                    |                   | <ul style="list-style-type: none"> <li>- No insecticides, herbicides, fertilizers, or other chemicals that might harm the beetle or its host plant shall be used in the buffer areas, or within 100 feet of any elderberry plant.</li> <li>- Other protection measures and replacement of elderberry bushes, when applicable, are implemented as outlined in <i>Conservation Guidelines for the Valley Elderberry Longhorn Beetle</i> (USFWS 1999; Appendix C of this EIR).</li> </ul>   |                       |                   |
|              |        |                    |                   | <ul style="list-style-type: none"> <li>▪ For each bush in which the Valley elderberry longhorn beetle is found, the 100-foot buffer area shall be observed during the activity period of the Valley elderberry longhorn beetle (from April to July). Construction activities may occur within the 100 foot buffer area during other periods provided the mitigation measures outlined above are implemented and restoration within the buffer area is completed by beetle emergence (April).</li> </ul>  |                       |                   |
| 3-39 to 3-40 |        |                    | 3.5.1.2           | <p>Protection of Swainson's hawks and other raptors (including bald eagle) and migratory birds.</p> <ul style="list-style-type: none"> <li>▪ Preconstruction surveys must be implemented prior to the initiation of construction if construction activities are to start between February 15 and September 15 (during the breeding season for raptors and migratory birds). Pre-construction survey protocols and protective mitigation requirements for Swainson's hawks, which are the most rigorous requirements for this group of species, will be followed. Surveys must consist of the following: <ul style="list-style-type: none"> <li>- All trees which are suitable for raptor nesting and are within 600 feet of construction activities shall be inspected by a qualified biologist.</li> <li>- Surveys will be conducted at the following intensities, depending upon dates of initiation of construction:</li> </ul> </li> </ul> | Less Than Significant | City of Hughson   |

| <b>Construction start</b> | <b>Survey period</b>  | <b>Number of surveys</b>   | <b>Timing</b>                      |
|---------------------------|-----------------------|--|------------------------------------|
| 1 January to 20 March     | 1 January to 20 March | 1  | All day                            |
|                           | 1 January to 20 March | 1  | All day                            |
| 21 March to 24 March      | 21 March to 24 March  | Up to 3  | Sunrise to 1000 and 1600 to sunset |
|                           | 1 January to 20 March | 1  | All day                            |
| 24 March to 5 April       | 21 March to 5 April   | 3  | Sunrise to 1000 and 1600 to sunset |
|                           | 21 March to 5 April   | 3  | Sunrise to 1000 and 1600 to sunset |
|                           | 6 April to 9 April    | Up to 3  | Sunrise to 1000 and 1600 to sunset |
| 6 April to 9 April        | 1 January to 20 March | 1 (if all 3 surveys are performed between 6 and 9 April, then this survey need not be conducted) | All day                            |
|                           | 21 March to 5 April   | 3  | Sunrise to 1000 and 1600 to sunset |
| 10 April to 30 July       | 6 April to 20 April   | 3  | Sunrise to 1200 and 1630 to sunset |
|                           | 6 to 20 April         | 3  | Sunrise to 1200 and 1630 to sunset |
| 31 July to 15 September   | 10 to 30 July         | 3  | Sunrise to 1200 and 1600 to sunset |

| <b>Impact No</b> | <b>Impact</b>   | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b>  | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|---|---------------------------|--------------------------|--|------------------------------|--------------------------|
|                  |   |                           |                          | <ul style="list-style-type: none"> <li>- If Swainson's hawks or other raptors are detected to be nesting in trees within 500 feet of the construction area, construction will not occur within this zone until after young Swainson's hawks have fledged (this usually occurs by early June). The nest will be monitored by a qualified biologist to determine fledging date.</li> </ul>   |                              |                          |
|                  |   | 3-40                      | 3.5.1.3                  | Impacts to western pond turtles.   | Less Than Significant        | City of Hughson          |
| 3.5.2            | Adverse Affect on any Riparian Habitat or Other Sensitive Natural Community           | 3-40                      | None                     | If percolation ponds #5 and 6 are dry during the proposed pond rehabilitation, then there is no impact and no mitigation will be required. If the ponds adjacent to the rehabilitated ponds (ponds #5 and #6) contain water during construction, then a pre-construction survey of the northern project parcel shall be conducted by a qualified biologist no more than 24 hours prior to initial ground disturbing construction. The biologist shall provide Environmental Awareness training to equipment operators prior to work commencement and be available to relocate turtles outside the impact area. | None                         | None                     |
| 3.5.3            | Disturbance to Wetlands and Jurisdictional Waters                                     | 3-40                      | None                     | None   | None                         | None                     |
| 3.5.4            | Interfere with the movement of fish or wildlife or impede wildlife movement corridors | 3-41                      | 3.5.4                    | Implement Mitigation Measures #3.5.1.2, #3.5.1.3 and #3.5.1.4  | Less Than Significant        | City of Hughson          |
| 3.5.5            | Conflict With Any Local Policies or   | 3-41                      | None                     | None   | None                         | None                     |

| <b>Impact No</b> | <b>Impact</b>   | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b>   | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|---|---------------------------|--------------------------|---|------------------------------|--------------------------|
|                  | Ordinances Protecting Biological Resources                      |                           |                          |   |                              |                          |
| 3.5.6            | Habitat Conservation Plan or Other Plan Conflict                | 3-41                      | None                     | None  | None                         | None                     |
| 3.6.1            | Disturbance of Cultural or Historic Resources, Skeletal Remains | 3-43 to 3-44              | 3.6.1.1                  | If, in the course of project construction or project operation, any archaeological or historical resources are uncovered, discovered, or otherwise detected or observed, activities within 50 feet of the find area shall cease. A qualified archaeologist shall be contacted and advise the City of the site's significance. If the findings are deemed significant appropriate mitigation measures recommended or approved by the archaeologist shall be implemented prior to any resumption of work in the affected area of the project. | Less Than Significant        | City of Hughson          |
| 3.7.1            | Seismic Effects   | 3-46                      | None                     | If, in the course of project construction or project operation, any skeletal remains are uncovered, discovered, or otherwise detected or observed, activities in the affected area shall cease. A qualified archaeologist, the City, the County Coroner and local Native American organizations shall be consulted, and appropriate measures approved by such entities shall be implemented that may include avoidance of the burial site or reburial of the remains.   | Less Than Significant        | None                     |
| 3.7.2            | Landslides  | 3-46 To 3-47              | None                     | None  | None                         | None                     |
| 3.7.3            | Soil Erosion, Topsoil Loss                                      | 3-47                      | None                     | None  | Less Than Significant        | None                     |
| 3.7.4            | Soil Instability  | 3-47                      | None                     | None  | Less Than Significant        | None                     |

| <b>Impact No</b> | <b>Impact</b>   | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b> | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|---|---------------------------|--------------------------|---------------------------|------------------------------|--------------------------|
| 3.7.5            | Expansive Soils Hazards   | 3-47                      | None                     | None                      | Less Than Significant        | None                     |
| 3.7.6            | Soils Unsuitable for Domestic Waste Disposal  | 3-47                      | None                     | None                      | Less Than Significant        | None                     |
| 3.7.7            | Soil Contamination  | 3-47 To 3-48              | None                     | None                      | Less Than Significant        | None                     |
| 3.8.1            | Hazard to the Public or Environment   | 3-53                      | None                     | None                      | Less Than Significant        | None                     |
| 3.8.2            | Hazardous Emissions, Hazardous Materials within One-quarter Mile of an Existing or Proposed School                                  | 3-54                      | None                     | None                      | None                         | None                     |
| 3.8.3            | Hazardous Materials Site, Safety Hazard for People Working in Vicinity of a Public Airport, Public Use Airport, or Private Airstrip | 3-54                      | None                     | None                      | None                         | None                     |
| 3.8.4            | Impair or Interfere with Emergency Response   | 3-54                      | None                     | None                      | None                         | None                     |
| 3.8.5            | Wildland Fires  | 3-54                      | None                     | None                      | Less Than Significant        | None                     |
| 3.9.1            | Violation of Water Quality Standards or Waste Discharge Requirements  | 3-68                      | None                     | None                      | Less Than Significant        | None                     |

| Impact No | Impact  | Page Number in EIR | Mitigation Number | Mitigation Measure   |  | Level of Significance | Monitoring Agency |
|-----------|---|--------------------|-------------------|--|--|-----------------------|-------------------|
|           |   |                    |                   | Number   | Measure                                |                       |                   |
| 3.9.2     | Substantial Effect on Groundwater Supply  | 3-69               | None              | None   | None                                   | None                  | None              |
| 3.9.3     | Substantially Alter Existing Drainage Pattern                                   | 3-69               | None              | None   | Less Than Significant                  | None                  | None              |
| 3.9.4     | Substantial Degradation of Water Quality  | 3-69               | None              | None   | Less Than Significant                  | None                  | None              |
| 3.9.5     | Exposure of People or Structures to Significant Risk of Loss Involving Flooding | 3-69 To 3-71       | None              | None   | Less Than Significant                  | None                  | None              |
| 3.10.1    | Physically Divide an Established Community                                      | 3-74               | None              | None   | None                                   | None                  | None              |
| 3.10.2    | Conflict with Existing Policies and Regulations                                 | 3-74               | 3.10.2.1          | The City shall apply to LAFCO for a Sphere of Influence (SOI) amendment to add the land purchased for Phase II to the City's SOI. In addition, the City shall annex this land into its City limits and designate it as Public Facility. This mitigation measure shall be implemented before construction of Phase II begins. | Less Than Significant                  | City of Hughson       |                   |
| 3.10.3    | Habitat Conservation Plans  | 3-74               | None              | None   | None                                   | None                  | None              |
| 3.11.1    | Loss in Availability of Minerals  | 3-75               | None              | None   | None                                   | None                  | None              |
| 3.12.1    | Construction Noise  | 3-77 to 3-78       | 3.12.1            | Noise producing equipment used during construction shall be restricted to the hours from 7:00 a.m. to 7:00 p.m., Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday and Sunday and holidays. Construction outside of these hours shall require written approval by the  | Temporary, Significant and Unavoidable | City of Hughson       |                   |

| <b>Impact No</b> | <b>Impact</b>  | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b>  | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|--|---------------------------|--------------------------|--|------------------------------|--------------------------|
| 3.12.2           | Operational Noise  | 3-78                      | None                     | Planning and Building Director. Also, effective mufflers shall be fitted to gas and diesel-powered equipment.  | Less Than Significant        | City of Hughson          |
| 3.13.1           | Induce Population Growth   | 3-80                      | None                     | Noise generation shall be considered in the purchase evaluation and installation of new equipment at the WWTP. Equipment shall be enclosed within buildings, when feasible, or placed behind noise attenuating barriers when necessary to ensure that noise levels do not exceed 70 dB (Stanislaus County General Plan, Noise Element Policy 2) at the boundary of the subject site. | Less Than Significant        | None                     |
| 3.13.2           | Displacement of Housing or Residents   | 3-80                      | None                     | None   | None                         | None                     |
| 3.14.1           | Fire Protection, Police Protection, Schools, Parks and Other Public Facilities                             | 3-81 to 3-82              | None                     | None   | None                         | None                     |
| 3.15.1           | Recreation   | 3-82                      | None                     | None   | None                         | None                     |
| 3.16.1           | Increase in Traffic, Exceedance of LOS Standards, Increased Traffic Hazards, Emergency Access, and Parking | 3-83 to 3-84              | None                     | None   | None                         | None                     |
| 3.16.2           | Change in Air Traffic Patterns   | 3-84                      | None                     | None   | None                         | None                     |
| 3.16.3           | Alternative Transportation   | 3-84                      | None                     | None   | None                         | None                     |

| <b>Impact No</b> | <b>Impact</b>   | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b> | <b>Level of Significance</b> | <b>Monitoring Agency</b> |
|------------------|---|---------------------------|--------------------------|---------------------------|------------------------------|--------------------------|
| 3.17.1           | Wastewater Treatment Requirements of the RWQCB                    | 3-85 to 3-86              | None                     | None                      | Less Than Significant        | None                     |
| 3.17.2           | Water and wastewater treatment facilities and wastewater capacity | 3-86                      | None                     | None                      | None                         | None                     |
| 3.17.3           | Storm drainage systems  | 3-86                      | None                     | None                      | None                         | None                     |
| 3.17.4           | Water supplies  | 3-86                      | None                     | None                      | None                         | None                     |
| 3.17.5           | Solid Waste Disposal  | 3-86 to 3-87              | None                     | None                      | Less Than Significant        | None                     |

**Table ES.3**  
**Summary of Potential Cumulative Impacts, Mitigation Measures and Mitigation Monitoring Program**

| <b>Impact No</b> | <b>Cumulative Impact</b>       | <b>Page Number in EIR</b> | <b>Mitigation Number</b> | <b>Mitigation Measure</b> | <b>Level of Significance</b>             | <b>Monitoring Agency</b> |
|------------------|--------------------------------|---------------------------|--------------------------|---------------------------|--|--------------------------|
| 5.2              | Aesthetics                     | 5-2                       | None                     | None                      | Cumulatively Significant and Unavoidable | None                     |
| 5.3              | Agricultural Resources         | 5-2                       | None                     | None                      | Cumulatively Significant and Unavoidable | None                     |
| 5.4              | Air Quality                    | 5-2, 5-3                  | None                     | None                      | Cumulatively Significant and Unavoidable | None                     |
| 5.5              | Biological Resources           | 5-4                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.6              | Cultural Resources             | 5-4                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.7              | Geology and Soils              | 5-4                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.8              | Hazards and Hazardous Material | 5-4, 5-5                  | None                     | None                      | Less Than Significant                    | None                     |
| 5.9              | Hydrology; Groundwater Impacts | 5-5                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.10             | Land Use and Planning          | 5-5                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.11             | Mineral Resource               | 5-5, 5-6                  | None                     | None                      | Less Than Significant                    | None                     |
| 5.12             | Noise                          | 5-6                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.13             | Population and Housing         | 5-6                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.14             | Public Services                | 5-6                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.15             | Recreation                     | 5-6, 5-7                  | None                     | None                      | Less Than Significant                    | None                     |
| 5.16             | Transportation/Traffic         | 5-7                       | None                     | None                      | Less Than Significant                    | None                     |
| 5.17             | Utilities                      | 5-7, 5-8                  | None                     | None                      | Less Than Significant                    | None                     |

**Table ES.4**  
**Summary of Impacts Which Remain Significant After Mitigation**

| <b>Agricultural Resources</b> |                         |  |
|-------------------------------|-------------------------|--|
| 3.3.1                         | Prime Farmland          | Significant and Unavoidable            |
| 3.3.2                         | Williamson Act Contract | Significant and Unavoidable            |
| <b>Noise</b>                  |                         |  |
| 3.12.1                        | Construction Noise      | Temporary, Significant and Unavoidable |